```
IN THE UNITED STATES DISTRICT COURT
07:58:18
         1
                         FOR THE EASTERN DISTRICT OF TEXAS
         2
                                  MARSHALL DIVISION
         3
            GREE, INC.,
                                              CIVIL ACTION NOS.
                                          ) (
         4
                                               2:19-CV-70-JRG-RSP
                                          ) (
                                               2:19-CV-71-JRG-RSP
                 PLAINTIFFS,
                                          ) (
         5
                                          ) (
                 VS.
         6
                                          ) ( MARSHALL, TEXAS
                                          ) ( SEPTEMBER 11, 2020
            SUPERCELL OY,
         7
                                              8:30 A.M.
                                          ) (
                 DEFENDANTS.
                                          ) (
         8
         9
                              TRANSCRIPT OF JURY TRIAL
        10
                             VOLUME 3 - MORNING SESSION
        11
                    BEFORE THE HONORABLE JUDGE RODNEY GILSTRAP
        12
                         UNITED STATES CHIEF DISTRICT JUDGE
        13
           APPEARANCES:
        14
        15
        16
           FOR THE PLAINTIFFS:
        17
           MR STEVEN D. MOORE
        18
           KILPATRICK TOWNSEND & STOCKTON LLP
        19
           Two Embarcadero Center, Suite 1900
           San Francisco, CA 94111
        20
           MS. TAYLOR HIGGINS LUDLAM
           KILPATRICK TOWNSEND & STOCKTON LLP
        22
            4208 Six Forks Road
           Raleigh, NC 27609
        23
        24
        25
```

```
1
  FOR THE PLAINTIFF:
 2
 3
  MR. ALTON L. ABSHER III
   KILPATRICK TOWNSEND & STOCKTON LLP
  1001 West Fourth Street
   Winston-Salem, NC 27101
 5
 6
  MR. MICHAEL T. MORLOCK
   KILPATRICK TOWNSEND & STOCKTON LLP
 7
   1100 Peachtree Street, NE
   Suite 2800
   Atlanta, GA 30309
 8
   MS. TAYLOR J. PFINGST
   KILPATRICK TOWNSEND & STOCKTON LLP
10
   Two Embarcadero Center, Suite 1900
11
   San Francisco, CA 94111
12
   MS. MELISSA R. SMITH
13
   GILLAM & SMITH, LLP
   303 South Washington Avenue
  Marshall, TX 75670
14
15
   FOR THE DEFENDANT:
16
17
   MR. MICHAEL J. SACKSTEDER
18
   MR. BRYAN A. KOHM
   MR. CHRISTOPHER L. LARSON
19
   MS. SHANNON E. TURNER
   FENWICK & WEST LLP
20
   555 California Street, 12th Floor
   San Francisco, CA 94104
21
22
   MR. GEOFFREY R. MILLER
23
  FENWICK & WEST LLP
   902 Broadway, Suite 14
  New York, NY 10010
24
25
```

```
1
   FOR THE DEFENDANT:
 2
   MS. JESSICA M. KAEMPF
 3
   MR. JONATHAN T. MCMICHAEL
   FENWICK & WEST LLP
   1191 Second Ave., 10th Floor
   Seattle, WA 98101
 5
 6
   MR. DERON DACUS
   THE DACUS FIRM, P.C.
7
   821 ESE Loop 323, Suite 430
   Tyler, TX 75701
 8
 9
10
11
12
   COURT REPORTER:
                      Ms. Shelly Holmes, CSR, TCRR
                       Official Court Reporter
13
                       United States District Court
                       Eastern District of Texas
14
                       Marshall Division
                       100 E. Houston
15
                       Marshall, Texas 75670
                       (903) 923-7464
16
17
    (Proceedings recorded by mechanical stenography, transcript
18
   produced on a CAT system.)
19
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08:26:10	1	PROCEEDINGS
08:30:29	2	(Jury out.)
08:30:29	3	COURT SECURITY OFFICER: All rise.
08:30:35	4	THE COURT: Be seated, please.
08:30:36	5	Are the parties prepared to read into the record
08:30:43	6	those items from the list of pre-admitted exhibits that
08:30:46	7	were used during yesterday's portion of the trial?
08:30:49	8	MS. LUDLAM: Yes, Your Honor.
08:30:49	9	THE COURT: Please go to the podium and proceed.
08:31:02	10	MS. LUDLAM: Plaintiff's identification of
08:31:05	11	admitted exhibits are PTX-1, PTX-2, PTX-3, PTX-4, PTX-5,
08:31:17	12	PTX-139, PTX-142, and PTX-163.
08:31:26	13	THE COURT: All right. Is there any objection to
08:31:30	14	that rendition, from the Defendant?
08:31:35	15	MR. DACUS: No, Your Honor.
08:31:36	16	THE COURT: All right. Does Defendant have a
08:31:38	17	similar rendition to offer?
08:31:40	18	MR. DACUS: I don't think we have any exhibits,
08:31:42	19	Your Honor, thank you.
08:31:42	20	THE COURT: All right. Mr. Moore, if you'd like
08:31:49	21	to return to the podium and get prepared to continue your
08:31:52	22	direct examination.
08:31:53	23	I see Dr. Akl is back on the witness stand, and I
08:31:55	24	remind the witness he remains under oath. When you're
08:31:58	25	ready and in position, we'll bring in the jury.

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08:32:19
         1
                     All right. Let's bring in the jury.
08:32:21
                    COURT SECURITY OFFICER: All rise.
         2
                     (Jury in.)
08:32:30
         3
                     THE COURT: Good morning, ladies and gentlemen.
08:33:09
         4
            Please be seated.
08:33:10
         5
08:33:10
                     We will continue with the direct examination of
         6
            Dr. Robert Akl by the Plaintiff.
08:33:14
        7
08:33:16
         8
                     And, Mr. Moore, you may proceed with the remainder
            of your direct examination.
08:33:20
                     MR. MOORE: Good morning, Your Honor. And thank
08:33:21
        10
08:33:23
       11
           you very much.
             ROBERT AKL, PH.D., PLAINTIFF'S WITNESS, PREVIOUSLY SWORN
08:33:23 12
08:33:23 13
                            DIRECT EXAMINATION CONTINUED
08:33:24
       14
           BY MR. MOORE:
08:33:24
       15
               Good morning, Dr. Akl.
            Q.
08:33:25
       16
            A. Good morning.
08:33:25
       17
            Q. Good morning.
                     When we left off yesterday, Dr. Akl, I think you
08:33:27
       18
            had just described the three Supercell games that you
08:33:30
       19
08:33:33
       20
            analyzed for infringement in this case; is that correct?
08:33:36
       21
            A. Yes.
        22
            Q. Okay. Now, I'd like to turn to your infringement
08:33:37
08:33:39 23
            analysis.
08:33:40 24
                    Before we get to the claims, could you please
            explain to the jury your opinion about how Supercell itself
08:33:44 25
```

performs the infringement of the five patents in question 08:33:52 1 08:33:55 here? A. So Supercell directly infringes by running the games on 08:33:55 3 their servers. Supercell has two servers, one on the East 08:34:06 Coast and one on the West Coast. One, I believe, in Oregon 08:34:11 5 08:34:15 and one in Virginia. 6 7 Supercell infringes by having the servers also 08:34:17 communicate with the phones, and the phones running the 08:34:22 08:34:26 games. So the Supercell game system includes both the servers and the games running on the phones which have to 08:34:31 10 be connected to the server to play. 08:34:35 11 Q. And please remind us, how does a user -- what does a 08:34:37 12 08:34:42 13 user have to do in order to play one of the Supercell 08:34:45 14 games? 08:34:45 15 A. So the user first has to download the games, and the games are available on the Apple App Store, if you have an 08:34:49 16 08:34:56 17 iPhone, and they're available on the Google Play Store if they have an Android phone. 08:35:01 18 08:35:03 19 They need to have an Internet connection to 20 08:35:05 download the game, and they need to have an Internet 08:35:08 21 connection to play the game where the game -- where their 08:35:12 22 phone has to be connected to the Supercell servers. 08:35:14 23 Q. And when the player is done playing and logs off the 08:35:19 24 game or turns off the phone, what happens to all the data 08:35:22 25 about the progress that the -- that the user has made in

```
08:35:24
         1
            the game?
                It's all saved on the Supercell servers.
08:35:24
            Q. How do you know that?
08:35:28
         3
            A. Because when you launch the game again, it will
08:35:29
            communicate with the server, and if you delete the game and
08:35:34
         5
08:35:38
            re-download it or if you get a new phone and download the
            game on a new phone, it will connect with the server, and
08:35:43
         7
08:35:47
            it will download your progress, and you pick up where you
            left off.
08:35:50
         9
            Q. Okay. Now, have you seen documents or testimony in
08:35:51
        10
            this case that talks about Supercell's servers?
08:35:55
        11
08:35:58
        12
            A. Yes.
08:36:00
        13
            Q. All right.
                     MR. MOORE: Mr. Groat, would you please pull up
08:36:03
        14
08:36:06
        15
            Plaintiff's Exhibit 111? And if you could please blow up
            the top part of the page.
08:36:15
        16
                (By Mr. Moore) What is Plaintiff's Exhibit 111?
08:36:16
        17
            Q.
                This is a declaration from Supercell's legal counsel
08:36:18
        18
            Α.
08:36:26
        19
            Hannu Partanen.
08:36:28
        20
            Q. And what is the subject of -- or -- I'm sorry,
            let me strike that.
08:36:32
        21
08:36:33
        22
                     To whom did Mr. Partanen make this declaration?
08:36:36
        23
            A. To the Tokyo District Court.
08:36:40
        24
            Q.
               And do you see at the upper right-hand corner the --
```

the heading that says Declaration re? How is that relevant

08:36:44

25

```
to your testimony about the servers?
08:36:49
         1
08:36:50
            A. If we actually go to the -- so this declaration is two
         3
           pages, and it's numbered paragraphs. If we go to the next
08:36:53
           page, Paragraphs 10, 11, and 12 are relevant to my opinion
08:36:58
           here.
08:37:04
         5
            Q. All right.
08:37:04
        7
                    MR. MOORE: Could you please blow -- blow those up
08:37:05
            for me, Mr. Groat? Thank you.
08:37:08
08:37:10
            Q. (By Mr. Moore) And how are these paragraphs of
            Mr. Partanen's declaration relevant to your opinions in
08:37:14
08:37:17
        11
           this case?
           A. So he testified that Supercell utilizes the Amazon Web
08:37:17
        12
            Services Cloud servers, and Supercell's AWS accounts are
08:37:25
        13
            owned and in the name of Supercell Oy. And each server
08:37:29
       14
            owned in the name of Supercell Oy is located in the United
08:37:34
        15
            States and Europe. In the United States, they're Amazon
08:37:38
       16
            AWS East and West, and in Europe and Frankfurt.
08:37:43
       17
            Q. And, again, who is Mr. Partanen?
08:37:47
       18
           A. He is Supercell's legal counsel. It's on the first
08:37:51
        19
       20
08:37:53
           page.
08:37:53
        21
            Q. And this is a statement he made to the Court in Japan;
08:37:56
        22
            is that right?
08:37:56
       23
           A. Yes.
08:37:57
       24
           Q. Okay. Now, have you also seen any --
08:38:00 25
                    MR. MOORE: You may take that down. Thank you.
```

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Q. (By Mr. Moore) Have you seen any testimony from any of
08:38:02
         1
            Supercell's representatives about the location of their
08:38:04
            servers?
08:38:08
         3
08:38:08
            A. Yes.
            Q. And what do you understand from the testimony you
08:38:12
         5
08:38:14
            reviewed from Supercell's representatives in terms of where
            their servers are located?
08:38:18
        7
            A. They're located in Virginia and Oregon, I believe,
08:38:19
         8
            according to Ostler's deposition.
08:38:25
            Q. Okay. And why is that relevant to your infringement
08:38:27
        10
08:38:30
            analysis in this case?
        11
08:38:31
        12
            A. Because they need to be in the United States. They
            need to be owned and operated by Supercell for direct
08:38:34
        13
            infringement, which they are.
08:38:40
        14
08:38:41
        15
            Q. Okay. So the -- the conduct of Supercell must have
            taken place in the United States for there to be
08:38:44
            infringement of a U.S. patent; is that correct?
08:38:46
       17
            A. Yes, this is my understanding of legal principles.
08:38:48
        18
            Q. All right. And did you find that to be true in this
08:38:51
        19
08:38:53
        20
            case for Supercell's infringement of all five of the
08:38:56
       21
            patents here?
08:38:56
       22
            A. Yes.
08:38:58
       23
            Q. Thank you.
08:39:00
       24
                     Let's move on to the first of the five patents.
           And please remind us -- reorient us to which patent we're
08:39:03 25
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```
going to be talking about here.
08:39:07
         1
            A. So the first thing we're going to be going through is
08:39:08
            Supercell's direct infringement of Claim 2 of the '594
08:39:11
08:39:20
            template patent through Clash of Clans.
            Q. All right. Now, you said this yesterday, but to remind
08:39:22
         5
08:39:24
            us, what type of a claim is Claim 2?
            A. Go to the next slide.
08:39:27
        7
08:39:30
         8
            Q.
               Sure.
08:39:31
                     MR. MOORE: Yes, thank you.
            A. So Claim 2 is a dependent claim because the first part
08:39:32
        10
08:39:36
            of Claim 2 says, the method according to Claim 1.
        11
            because it's a dependent claim, I have to look at Claim 2
08:39:40
        12
            and all the elements of Claim 1.
08:39:44
        13
            Q. (By Mr. Moore) And what do you have to show in order
08:39:47
        14
08:39:49
        15
            for this jury to conclude that Supercell has infringed
            Claim 2?
08:39:52
       16
            A. We have to -- or I have to do the analysis of every
08:39:53
        17
            single limitation or element of Claim 1 and Claim 2.
08:39:58
        18
08:40:04
        19
            Q. All right. And do you have a black binder in front of
08:40:07
       20
            you, Dr. Akl?
            A. I do.
08:40:08
       21
08:40:09
        22
               Okay. Because while we're showing the claim language
08:40:12
        23
            here, I'm going to be showing you other slides. If you
08:40:15
        24
            need to look at the claims, I would point you to that --
```

that binder which contains all the patents.

08:40:20 25

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08:40:23
                    All right. Then let's proceed with the analysis.
         1
08:40:29
                    What did you do in order to determine that
         2
08:40:32
            Supercell infringed Claim 2 of the '594 patent?
         3
            A. So, first, I looked at the games, I've played the
08:40:35
            games, I looked at documents, and I looked at the source
08:40:42
         5
08:40:45
            code that tells me how the games operate.
            Q. All right. Well, let's start with the first piece of
08:40:47
         7
            the claim. And what are we starting with here?
08:40:53
08:40:55
            A. So the -- the first part of the claim is called the
            preamble. So this is one -- the first part of Claim 1
08:40:59
        10
08:41:03
            which says: A method for controlling a computer that is
        11
08:41:08
        12
            provided with a storage unit configured to store game
08:41:13
        13
            contents arranged within a game space.
            Q. And to prove that Supercell directly infringes Claim 2,
08:41:15
        14
08:41:20
        15
            what do you have to show regarding the method that's
            specified here?
08:41:23
        16
            A. I need to show that there is a method for controlling a
08:41:24
        17
            computer. And the computer are the Supercell servers, and
08:41:29
        18
08:41:32
        19
            the phones that are running the Supercell games. And they
08:41:38
        20
            need to have a storage unit that's configured to store game
        21
            contents. So we'll see the games playing. There is
08:41:43
08:41:46
        22
            storage on the servers. There is storage on the phones,
08:41:50
        23
            which will store the game content within the game space.
08:41:55
        24
                    So for this element and every element, I will show
            a screenshot. Sometimes I'll show a video. And this is
08:41:58 25
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how we're -- I'm going to walk through the infringement.
08:42:01
         1
08:42:03
            Q. Okay. Well then, how does Supercell control a computer
08:42:07
            that's provided with a storage unit configured to store
         3
            game contents arranged within a game space using Clash of
08:42:09
            Clans?
08:42:15
         5
08:42:15
            A. So through the source code. Supercell's source code
        7
            for the games running on the servers and the servers
08:42:17
08:42:19
            communicating with the phones and the phones also running
         8
08:42:22
            the Supercell games infringe the preamble.
            Q. All right.
08:42:30
        10
08:42:31
        11
                    MR. MOORE: If we can go to the next slide,
            please. My control seems to be not working. All right.
08:42:33
        12
08:42:36
        13
            Thank you.
            Q. (By Mr. Moore) What are you illustrating here on this
08:42:36
        14
08:42:38
        15
            slide?
            A. So we are looking at Clash of Clans. So the game
08:42:38
        16
            content is -- is all of what you see here, which are the
08:42:44
        17
08:42:46
        18
            buildings, the troops, the walls that you place on a game
08:42:55
        19
            space.
08:42:55
        20
                    So the game space is the green background. That's
            the game space. And this is the game running on the phone.
08:42:58
        21
08:43:02
        22
            The phones have storage. The game also runs on the
08:43:06
        23
            servers. The servers have storage. And so this will show
08:43:10
        24
            that there is infringement of the preamble of Claim 1.
            Q. All right.
08:43:18 25
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MR. MOORE: If you go to the next slide, please.
08:43:21
         1
            Thank you. Hold it there, please.
08:43:23
            Q. (By Mr. Moore) Now, what does this shot -- slide show,
08:43:25
         3
            which has listed on it PTX-163?
08:43:28
            A. So I played the games myself, and the videos are of me
08:43:30
         5
08:43:35
            playing the games. So this is my hand holding a phone and
            playing the game. This is the lower part of the screen.
08:43:39
        7
08:43:43
            And the top part of the screen is just the recording of the
08:43:48
            screen, because sometimes I'm going to be using my right
08:43:51
        10
            hand to do touch operations which will block some view from
            the phone. But on the top part, you'll see exactly what
08:43:56
        11
08:43:59
        12
            the phone sees.
                    So they're both identical, just one is a view of
08:44:00
        13
            me playing the phone, and one is just the view of the phone
08:44:04
        14
08:44:07
        15
            alone, the recording.
            Q. And what type of phones did you play these games on?
08:44:09
        16
08:44:12
        17
            A. I played them on an Android -- I believe Samsung
            phone -- and an Apple iPhone.
        18
08:44:18
08:44:21
        19
            Q. Okay. And do you recognize what I'm holding up as
08:44:24
        20
            PTX-654 and 655?
08:44:25
        21
            A. Yes. These are the two phones that I asked counsel to
08:44:28
            get so I can play the games on.
        22
08:44:31
        23
            Q. All right. Thank you.
08:44:39
       24
                    Now, let me make sure I understand what you're
08:44:41 25
           recording on the video. The bottom part is just a camera
```

```
shooting you and your hand playing the game.
08:44:45
         1
            A. Yes. The camera was above me. I was holding the phone
08:44:47
            on the table, and there was a photographer videotaping me
08:44:54
         3
08:44:57
            playing the game.
            Q. And how does the top image capture?
08:44:58
         5
            A. So you'll see a cord coming out of the phone and the
08:45:00
            phone -- and this is for the audio -- and the phones also
08:45:05
        7
08:45:06
            have a capability to record a video. So in both cases, I
         8
08:45:09
            recorded the phone, me, as I was playing it, while I was
            being recorded playing the phone.
08:45:13
        10
08:45:15
            Q. All right. And so, are the -- do the images and the
        11
08:45:22
        12
            movement of the game match between the two?
08:45:24
        13
            A. Yes, they're supposed to.
            Q. All right. Let's go ahead and run this. And I think
08:45:25
        14
08:45:29
        15
            we don't have the sound; is that right?
            A. Yes, we don't need the sound. I can narrate what's
08:45:29
        16
            happening.
08:45:29
        17
08:45:29
        18
            Q. All right. So let's do that, please. What is
08:45:30
        19
            happening here?
08:45:30
        20
            A. Yes. So this is just showing for the Claim 1, the
            preamble, I'm just moving around the game, showing the game
08:45:36
        21
08:45:40
        22
            content, which are the buildings, the towers. You see some
08:45:46
        23
            bats flying or some dragons flying. So this is -- these
08:45:50
        24
            are all game content, and the green area is the game area.
08:45:54 25
                    So satisfying the claim language.
```

```
O. Okay. And could you give us an example of -- for
08:45:57
         1
            example, what's shown here on the -- on the screen? What
08:46:00
            type of building is that?
08:46:03
            A. Yes. So this is an example. This is called a bomb
08:46:04
            tower. You can click or select any building, and it gives
08:46:11
         5
08:46:14
            you statistics on those buildings. And in this example,
            this is a tower that can provide defense to your city.
08:46:17
        7
            Q. So what conclusion did you reach regarding Supercell's
08:46:22
         8
08:46:24
            direct infringement of the preamble of Claim 1?
            A. That Supercell directly infringes the preamble of
08:46:27
        10
            Claim 1.
08:46:31
        11
            Q. All right. And what have we done here to note that?
08:46:32
        12
08:46:35
        13
            A. So I put a checkmark. And as we walk through each
            element, I'm going to put a checkmark for each element we
08:46:39
        14
08:46:43
        15
            cover, and highlight the next element we're going to walk
08:46:46
        16
            through.
            Q. All right. Let's go to that next element. What does
08:46:46
        17
            Element 1a require?
08:46:49
        18
            A. Element la requires first positions of the game
08:46:50
        19
08:46:56
        20
            contents within the game space.
08:46:59
        21
            Q. And how does Supercell directly infringe with Clash of
            Clans for that claim element?
08:47:05
        22
08:47:06
        23
            A. So the first position is what we already saw, which is
08:47:11
        24
            just the first position of all the buildings. So the
```

location of all the buildings and the towers and the walls

08:47:18 25

```
would constitute a first position of game content within
08:47:20
         1
            the game space.
08:47:24
            Q. And do you have a videoclip that illustrates this claim
08:47:25
         3
            element?
08:47:28
            A. Yes.
08:47:28
         5
08:47:30
                     MR. MOORE: And we're showing for the record
         6
            Plaintiff's Exhibit 164. Please run that.
        7
08:47:32
08:47:36
               (By Mr. Moore) And explain what is shown in the clip?
         8
            Q.
08:47:38
            A. So, again, very similar to what was shown before, I'm
            going to walk around, and I can click on the area, and so
08:47:42
        10
            the -- the -- what we're seeing here is the editor.
08:47:48
        11
        12
08:47:53
                     So you can lay all the buildings on the green
08:47:56
        13
            background, and you can go into the editor. You can move
            them around. You can save. But to meet the first
08:48:00
       14
08:48:02
        15
            limitation, you just need to have them in one place.
            That's the first position.
08:48:06
        16
            Q. All right.
08:48:07
        17
                     MR. MOORE: Could you run that short clip again?
08:48:08
        18
            Q. (By Mr. Moore) And explain what the button is that you
08:48:10
        19
08:48:12
        20
            pressed there?
08:48:12
        21
            A. So the button on the left says active village, and then
08:48:22
        22
            you can basically just go to your editor to the village
08:48:26
        23
            that you have active.
08:48:27
       24
                     And as we'll see, you can have multiple copies or
            templates. So this is just the active village is our first
08:48:30 25
```

```
08:48:34
         1
            position.
            Q. And so a player can have multiple different layouts
08:48:34
            saved; is that right?
08:48:40
            A. Yes.
08:48:41
08:48:42
         5
            Q. Okay. Thank you.
                     All right. So what is your conclusion regarding
08:48:44
         6
        7
            Claim 1, Element a.
08:48:49
            A. That it's infringed by Supercell.
08:48:50
         8
08:48:52
            Q. Now, let's look at Claim 1, Element b. What does this
            element involve?
08:48:56
        10
            A. For Element b we need: And a template defining second
08:48:57
        11
            positions of one or more of the game contents.
08:49:07
        12
08:49:09
        13
            Q. And did the Court give any interpretations or claim
            constructions for this particular element?
08:49:13
        14
        15
08:49:15
            A. Yes. So the Court defined two terms for us, and I have
            to abide by the definitions from the Court.
08:49:21
            Q. And did you do that in your analysis in this case?
08:49:24
        17
               Yes.
08:49:27
        18
            Α.
            Q. Could you please review with the jury what the Court's
08:49:27
        19
        20
08:49:30
            constructions say?
            A. So the claim has two terms that are defined by the
08:49:31
        21
08:49:37
        22
            Court. The first is the word "template." And the Court
```

gave the definition that template means data structure

storing a pattern. And the second part of the claim the

Court gave a definition that, defining a second position

08:49:39

08:49:44

08:49:50 25

23

24

```
for each of one or more of the game contents.
08:49:54
         1
            Q. And how does Clash of Clans -- how does Supercell
08:50:00
            controlling Clash of Clans meet this claim element as the
08:50:06
            Court has construed it?
08:50:09
           A. So data structure is something you use in computer
08:50:10
08:50:13
            science to store variables. It's a way of storing
            information in a computer program. So the data structure
08:50:16
        7
08:50:18
            itself, I look at the source code to see that those
         8
            buildings are stored in data structures.
08:50:22
                    For the second position, I will demonstrate both I
08:50:24
        10
            can see it in the source code, but I can also demonstrate
08:50:29
        11
08:50:32
        12
            it visually by moving the buildings. And I will do that
            and then store the second location that will meet the claim
08:50:35
       13
08:50:40
       14
            language.
08:50:40
       15
            Q. Okay. And do you have a videoclip that you'd like to
           use to illustrate that?
08:50:45
       16
           A. Yes.
08:50:46
       17
                    MR. MOORE: Please -- if we could please play the
08:50:47
        18
08:50:51
        19
           clip.
08:50:51
        20
            Q. (By Mr. Moore) And if we can explain what we're seeing
           here on Plaintiff's Exhibit 164?
08:50:54
        21
        22
           A. So what I will do is I zoom in, I pinch the Zoom, I can
08:50:55
08:51:00
        23
           select the building, and I can move the building. And so
08:51:03
       24
            you saw me just move one building, and then I can save. It
08:51:07 25
           asks me if I want to save. I say yes. And so this is an
```

```
example. And now it's saved. So now we have a template
08:51:11
         1
08:51:15
            with a second position.
         2
                     Now, in this case, I just moved one building, but
08:51:16
         3
            you can move any number of buildings. You can move, you
08:51:19
         4
            know, two or three. And the movement of those buildings
08:51:22
         5
08:51:24
            are saved in a data structure in the source code.
            Q. And when you click to save where you had moved this
08:51:28
         7
08:51:32
            gold storage building from one place to the other, where is
            that shown here in the layout editor menu? Which -- which
08:51:36
            layout will that be in?
08:51:41
        10
            A. It's still in my active village layout. So I haven't
08:51:43
        11
            changed from the current active village layout.
08:51:48
        12
08:51:51
        13
            Q. You just made an edit to your existing active layout?
            A. Yes. I created a second position by moving a building.
08:51:55
        14
08:51:57
        15
            Q. Now, I'd like to show you another videoclip, this one
            from Plaintiff's Exhibit -- oh, I'm sorry, I'm jumping
08:52:01
        16
            ahead a little bit. That's fine.
08:52:04
        17
                     So what is your conclusion about Claim Element b?
08:52:07
        18
08:52:10
        19
            A. That Supercell infringes Element b.
08:52:18
        20
            Q. Now, let's go on to Claim 1, Element c and what does
            this claim element require?
08:52:25
        21
08:52:26
        22
            A. And that progresses a game by arranging the game
08:52:30
        23
            contents within the game space based on a command by a
08:52:32
        24
            player, the method comprising.
            Q. How does Supercell infringe this element of Claim 1?
08:52:34
        25
```

```
A. So we need to determine that Supercell has a command by
08:52:39
         1
            a player. So the user has to issue a command or there has
08:52:47
            to be a command. And looking at -- at the source code and
08:52:50
            looking at the game, the user can set as active, and that's
08:52:54
            the command that would meet the claim language.
08:52:59
08:53:02
                    MR. MOORE: Let's go now to the next video that I
            mentioned earlier, Plaintiff's Exhibit 166. Could we
08:53:04
        7
08:53:09
           please play that video?
            Q. (By Mr. Moore) And explain why this supports your view
08:53:10
            on this element.
08:53:12
        10
            A. So what we're looking at is now -- for example, I've
08:53:14
        11
            cleared the green space. This is my area. And then I can
08:53:21
        12
08:53:24
        13
            go into my editor, I can select a template. So I've
            selected the one in the middle. And I clicked set as
08:53:27
        14
08:53:34
        15
           active.
                    And now the middle one says active village, while
08:53:34
        16
           before the one on the left was active village. So I --
08:53:37
        17
            I've used the command set as active at the bottom to select
08:53:41
        18
08:53:47
        19
            a template. And that is one example of a command that
08:53:52
        20
            meets the claim language.
        21
            Q. Okay. All right. So let me -- let me make sure this
08:53:53
        22
            is clear.
08:53:56
08:53:56
        23
                     In this -- in your -- when you're playing the game
08:54:00
        24
           here, is it true that you had two layouts for your villages
           that you could choose for, to use in the game?
08:54:04
       25
```

```
08:54:06
         1
           A. Yes.
               The one on the left and the one in the center?
08:54:07
            Q.
08:54:09
         3
            Α.
               Yes.
               All right. And how did you change from using the one
08:54:12
            Q.
            on the left to using the one in the center?
08:54:15
08:54:18
            A. So you can select any layout. If that layout is not
            your active village, I can click the set as active button
08:54:23
        7
            on the bottom row, and that is the command that makes
08:54:28
         8
08:54:35
            whatever template I select become my active village.
            Q. In this -- in this example, had you already created and
08:54:40
        10
            saved the layout in the middle that you then set as your
08:54:43
        11
            new active layout?
08:54:46
        12
08:54:48
       13
            A. Yes.
            Q. You'd already done that in the game?
08:54:48
        14
08:54:50
       15
            Α.
               Yes.
            Q. Okay. All right. And so, what is your conclusion with
08:54:51
        16
            respect to Claim Element 1c?
08:54:55
        17
            A. So it is met by the set as active. It's also met by
08:54:59
        18
08:55:09
        19
            copy layout.
08:55:09
        20
            Q. All right. And we'll -- we'll get into -- we'll get
            into copy layout, as well.
08:55:11
        21
08:55:12
        22
                     Okay. Well, let's move on to claim element -- the
08:55:19
        23
            last piece of Claim 1, which is Element d.
08:55:22
       24
                     And what does this element require, Dr. Akl?
```

A. When the template is applied to a pre-determined area

08:55:25 25

within the game space based on the command by the player, 08:55:29 1 moving, by the computer, the game contents arranged at the 08:55:34 first positions within the game space to second positions 08:55:40 3 of the game contents defined by the template within the 08:55:44 pre-determined area. 08:55:49 08:55:50 Okay. That one is a bit of a mouthful, isn't it? It is. But really all it means is that we're moving 08:55:53 7 08:55:57 from a first space or first location to a second location 08:56:02 by arranging the content and having two different templates. 08:56:04 10 08:56:05 Q. And how does having two different templates or -- well, 11 strike that. 08:56:09 12 By two different templates, are you referring in 08:56:09 13 your game example to the two layouts that you've previously 08:56:12 14 08:56:15 15 created and stored? A. Yes. Or -- so we saw as we were walking through the 08:56:16 16 videos, we first had my initial layout, and this is your 08:56:19 17 first template. And then I can move a building or move 08:56:23 18 08:56:28 19 multiple buildings, and I can create a second template. Ι 20 08:56:31 can save that. 08:56:32 21 And if I can go in and I can set a second template 08:56:37 22 where the buildings are moved as my active or if I copy 08:56:43 23 into an empty slot -- or into any slot, really -- what I 08:56:51 24 originally had as a first position and then what I have as 08:56:54 25 a second position, that would meet the claim language of

```
you have a template applied to a pre-determined area.
08:56:57
         1
08:57:01
            That's your green background. Within the game space.
08:57:05
            That's the green stuff. And the pre-determined area is
         3
            where you place the buildings. By a command by the player,
08:57:07
            like set as active or copy. By the computer, you're using
08:57:12
         5
08:57:15
            your phone. The game content arranged at the first
        7
            position. This was the first template that we saw in
08:57:19
08:57:23
            Element 1a. To the second position. This was the second
         8
08:57:27
            position that we saw in Element 1b. Of the game content
            defined by the template within the pre-determined area.
08:57:31
        10
08:57:35
        11
            Q. You mentioned that the computer -- one example of that
            was your phone. Are there other examples of what can be
08:57:37
        12
            the computer in this claim element?
08:57:41
        13
            A. Yes. The second would be the server, because
08:57:42
        14
08:57:45
        15
            anything -- when a user moves anything on their phone, I've
            looked at source code of how the phone communicates with
08:57:49
        16
08:57:52
            the server, and that information is also relayed to the
        17
            server, and the server saves the same information.
08:57:56
        18
08:57:59
        19
            template in the first position and the second position is
08:58:03
        20
            also saved on Supercell's servers.
08:58:06
        21
            Q. Thank you.
08:58:06
        22
                    Now, do you -- do you have a video that helps us
08:58:09
        23
            illustrate this longer claim element here?
08:58:11
        24
            Α.
               Yes.
            Q. All right.
08:58:12 25
```

```
MR. MOORE: Let's look at that. Could we play the
08:58:12
         1
            video off of Plaintiff's Exhibit 166, please?
08:58:14
                (By Mr. Moore) And please illustrate it for us.
08:58:16
         3
            Q.
08:58:21
                So here I am exiting the editor, and I'm showing you
            the layout that I have.
08:58:27
         5
08:58:32
            Q.
                Okay.
            A. So after -- so this is the last step. So after I've
08:58:33
        7
            set it as active -- and when you exit, you've seen that
08:58:37
            what used to be green or what used to be the first position
08:58:41
08:58:45
        10
            is now the -- the second position. So the building has
08:58:48
            moved. That's enough to satisfy the claim language.
        11
            Q. And which building are you talking about?
08:58:51
        12
            A. So the -- the template that I selected where I moved
08:58:53
        13
            one building -- I believe it was up here --
08:58:57
        14
        15
08:59:00
               Right.
            Q.
               -- that I moved it a little bit.
08:59:00
        16
               All right.
08:59:03
        17
            Q.
                     MR. MOORE: Can you play this video again,
08:59:04
        18
08:59:08
        19
            Mr. Groat, so we can see it again?
08:59:10
        20
            A. So all I needed to do was go back to my space and show
08:59:15
        21
            that now my space occupies the -- my green space occupies
08:59:19
        22
            the second template --
08:59:22
        23
            Q. (By Mr. Moore) Okay.
08:59:22
        24
            Α.
               -- from where I had a first template.
08:59:25 25
            Q. Right. And so is what you did here is move -- as an
```

```
1 example move that one building from your first layout and
08:59:27
           then saved it as a new layout?
08:59:32
           A. I did. And then I set it as active.
08:59:34
08:59:36
            Q. And, in your opinion, does doing that meet Claim
           Element 1d?
08:59:41
08:59:42
           A. Yes.
        7
            Q. All right. Now, do you have another example of how
08:59:42
           this claim element is met?
08:59:44
08:59:46
           A. Yes.
        9
           Q. And what is that?
08:59:46
        10
           A. So we can copy also, and we can walk through a video of
08:59:47
08:59:52
       12
           that.
           Q. All right.
08:59:53
       13
                    MR. MOORE: Let's show this from exhibit --
08:59:53
       14
08:59:56
       15 | Plaintiff's Exhibit 165. If you could run that video,
08:59:59 16
           please.
            Q. (By Mr. Moore) And -- and -- and illustrate it for us,
09:00:03 17
           Dr. Akl.
09:00:05
       18
           A. So I go into my editor, and I can hit copy, and I can
09:00:06
       19
09:00:22
       20
            select the template. So what I -- the button says copy
09:00:27
        21
            layout, and I selected a slot, and now I've copied a
09:00:30
       22
            template into a slot.
09:00:31
        23
            Q. And how does that meet the requirement in the claim
09:00:34
       24
           element that the computer has moved the game contents from
09:00:37 25
           the first to the second positions?
```

```
A. Because the first layout was my original layout where I
09:00:39
         1
            had the building where it was when we first started
09:00:45
            Claim 1. And then I have a second layout, which is where I
09:00:48
         3
            moved the building. And I saved that.
09:00:52
                     And then if I copy it into a slot and then I can
09:00:54
         5
09:00:58
            go to that -- into my building when I exit the editor,
        7
            which I've already shown you, I would have moved a template
09:01:03
09:01:07
            from a first position to a second position in a
         8
            pre-determined space.
09:01:09
            Q. All right. And so what is your conclusion as to the
09:01:10
        10
09:01:13
            elements of Claim 1 of the '594 patent?
        11
09:01:15
        12
            A. That Supercell infringes all the elements of Claim 1.
09:01:19
        13
            Q. Now, you mentioned previously source code. Did you
            review source code relevant to any of the aspects of
09:01:23
        14
            Claim 1?
09:01:28
        15
            A. Yes.
09:01:28
        16
            Q. All right. And I think we had some discussion
09:01:29
        17
            yesterday about the confidentiality; do you recall that?
09:01:34
        18
09:01:36
        19
            A. Yes.
09:01:36
        20
            Q. All right. I'm going to show you that a little bit
            later due to the confidentiality, but in the interest of
09:01:39
        21
09:01:42
        22
            moving along now, let's -- let's -- let's move ahead.
09:01:46
        23
                     Is -- is doing all the steps of Claim 1 enough to
09:01:48
       24
            find that Supercell infringes Claim 2?
09:01:50 25
            A. No.
```

```
All right. What do we have to look at now?
09:01:52
         1
            Q.
09:01:54
                The elements of Claim 2.
            Α.
            Q. Okay. Let's do that.
09:01:56
         3
09:01:58
                     MR. MOORE: Skip over to the code.
         4
                (By Mr. Moore) All right. Now, Claim 2, what does
09:02:00
         5
            Q.
09:02:03
            Claim 2 require, Dr. Akl?
            A. So Claim 2 is a dependent claim. We know that because
09:02:04
         7
            it starts by saying, the method according to Claim 1,
09:02:07
            wherein the storage unit further stores a template related
09:02:11
            to a different player. So you need to have a template of a
09:02:15
        10
09:02:19
            different player.
        11
09:02:22
        12
                     When the template related to the different player
09:02:24
        13
            is applied to a pre-determined area within the game space
            based on the command by the player, the computer moves the
09:02:29
        14
09:02:34
        15
            game contents arranged at the first positions within the
            game space to the second positions of the game contents
09:02:38
        16
            defined by the template related to the different player.
09:02:42
        17
09:02:48
        18
            Q. How are these -- all right. So, first, you have to
09:02:51
        19
            have a different player; is that correct?
            A. Yes.
09:02:53
        20
            Q. And in Clash of Clans, how does Clash of Clans allow
09:02:53
        21
09:02:58
        22
            you to perform this claim with respect to a different
09:03:01
        23
            player?
09:03:02
        24
            A. So, because Clash of Clans is a social game and you can
09:03:06 25
            have your own social friends or you can go and see another
```

```
player's city, not only can you see it, but the game allows
09:03:10
         1
            you to copy that template. There is a specific button that
09:03:14
            says copy template of that player, and then you can go back
09:03:19
09:03:21
            to your own city, and you can place exactly the layout of
            the other player.
09:03:25
         5
09:03:26
            Q. And how does the -- when you do that, how does the
        7
            computer move the game contents from the first positions to
09:03:30
09:03:35
            the second positions?
         8
            A. So the -- the first position was, for example, your own
09:03:36
            layout, which is what we saw in Claim 1. So you had your
09:03:39
        10
            own village with your own layout. That would constitute
09:03:42
        11
09:03:45
        12
            the first position.
09:03:46
        13
                     And when you go and you copy a second player's
            village and you save it and you are back in your own
09:03:51
        14
09:03:55
        15
            village with that information and you display that village,
09:04:01
            you have moved from a first position to a second position,
        16
            but now the second position is related to the different
09:04:04
        17
09:04:08
        18
            player's template.
            Q. All right. And how is the -- how are the second
09:04:09
        19
09:04:13
        20
            positions defined by the template related to the different
09:04:16
        21
            player?
09:04:16
        22
            A. They're defined also in the source code, the data
09:04:22
        23
            structures.
09:04:22
        24
            Q. Okay. But even just from looking at the game, how do
            you know that when I've copied my clan mate's layout and
09:04:25 25
```

```
put it into my own layout slot, that now my second
09:04:30
         1
            positions are defined by the template related to the
09:04:34
            different player?
09:04:37
         3
                Well, I have a video to show you that.
09:04:37
            Α.
               All right.
09:04:40
         5
            Q.
09:04:40
            A. It would be -- you will see the buildings of the second
            player, and you will see them then occupy your own space.
09:04:44
         7
09:04:48
            Q. Okay.
         8
09:04:49
                     MR. MOORE: This is from Plaintiff's Exhibit 167.
               (By Mr. Moore) Is this the video you're referring to?
09:04:50
        10
            Q.
                Yes.
09:04:52
        11
            Α.
09:04:53
        12
                     MR. MOORE: Let's please play this.
09:04:55
        13
            Q.
                (By Mr. Moore) And please illustrate what you mean by
09:04:58
        14
            that, Dr. Akl.
09:04:59
        15
            A. So on the left, I believe there's a social tab that you
            can press. So this is my screen, and this is originally my
09:05:03
        16
            first position. You click the little menu on the left, and
09:05:06
        17
09:05:10
        18
            you can click the tab. Your social tab shows you your
09:05:14
        19
            clan, and these are players that you're friends with. And
09:05:18
        20
            so, you can click a player, and you can hit visit.
                     So when you hit visit, it does this little
09:05:21
        21
09:05:23
        22
            animation with the clouds. And now, I visited a different
09:05:27
        23
            player's layout. I can hit copy, and then you have the
09:05:31
        24
            animation in the clouds, and now I'm back into my own
09:05:36 25
            village, and I can save that template.
```

```
So now I see in the green space the template that
09:05:37
         1
            I copied from the second player. I know this is kind of
09:05:42
         2
            like a quick video, but if you want, I can walk through it.
09:05:48
         3
09:05:51
            Q. Yeah. I wanted to show it first, but I want you to
            walk through it.
09:05:53
09:05:54
                     MR. MOORE: Could you please start it over, and if
         6
        7
            you don't mind, I'll tell you when to hit pause so we can
09:05:56
09:06:00
            see what's happening here.
         8
09:06:01
                (By Mr. Moore) Okay. So where are we again here?
            Q.
                So this is my own village. This is the first position.
09:06:03
        10
            Α.
09:06:06
               Okay.
        11
            Q.
            A. And I clicked on the left and it says, my clan.
09:06:06
        12
09:06:08
        13
                     MR. MOORE: Let's pause here, please.
09:06:11
        14
            Q.
               (By Mr. Moore) Now, who are you?
09:06:12
        15
               So I'm not shown here.
            Α.
09:06:14
        16
            Q.
               Okay.
            A. I'm me, and this is my clan. So these are two people
09:06:14
        17
            in my clan. So a player is POW and a player is Morlock
09:06:17
        18
09:06:24
        19
            gamer. And so I'm going to -- what you're going to see is
09:06:27
        20
            I'm going to click on Morlock gamer, and I'm going to go to
09:06:33
        21
            his village, and I'm going to see his template, and I'm
09:06:35
        22
            going to copy that template and bring it back to my
09:06:39
        23
            village.
09:06:40
       24
                    MR. MOORE: All right. Could you please continue
09:06:41 25
           the video.
```

```
Q. (By Mr. Moore) And please tell us what you're seeing
09:06:42
         1
09:06:44
            here.
            A. So now what I'm going to do is I'm going to click on
09:06:44
         3
            that player. And now when I click on the player, I see the
09:06:47
            pop-up window with visit. And so I clicked on visit and
09:06:49
09:06:56
            now I can see their village, and this is the copy layout so
            I can copy their layout and I can come back to my village.
09:06:57
         7
09:07:01
            Q. All right.
         8
09:07:02
                    MR. MOORE: I should have said pause there. Could
            you please go back a little bit to where you're in the
09:07:06
        10
09:07:06
            other player's village? There's one thing I wanted to
        11
09:07:09
        12
            illustrate. Okay. Now please pause it there.
09:07:11
        13
            Q. (By Mr. Moore) So this is the village of Morlock
09:07:16
        14
            gamer, your clan mate; is that right?
09:07:19
        15
            A. Yes. So I know that because it says Morlock gamer and
            this is their village so this is their name and this is the
09:07:24
            button that I pressed.
09:07:24
        17
               The button that's labeled, copy layout?
09:07:25
        18
            Ο.
09:07:29
        19
            Α.
               Yes.
09:07:29
        20
               And if you press that button, what happens?
            Q.
09:07:32
        21
            A. Then I've copied their layout, and I can go home.
09:07:34
        22
            you have -- you can -- so I can go home without copying
09:07:35
        23
            their layout. This is return home button on the lower
09:07:38
        24
            left. But if I want to copy their layout, this is the app
            that infringes, I'm issuing a command to copy a different
09:07:41
        25
```

```
player. This is Morlock gamer's layout. And bring it to
09:07:45
         1
           my own village.
09:07:50
09:07:51
                     MR. MOORE: All right. Please resume the video,
         3
09:07:59
            Mr. Groat. Okay. Pause it here.
                (By Mr. Moore) So what did you do here and why did
09:08:01
         5
09:08:04
            this pop up show up?
            A. Okay. So I've copied a second player's layout. This
09:08:05
         7
            is Morlock's layout. And it brings me back to my editor.
09:08:09
09:08:13
                     Now, sometimes when you're copying someone else's
            layout, they may have more buildings than you do or they
09:08:15
        10
            may have less buildings than you do, but if they have more
09:08:19
        11
            or they may have different obstacles in their village where
09:08:22
        12
09:08:27
        13
            they place their buildings, so if there is any discrepancy
            in terms of how you can place it, you get a pop-up message
09:08:30
        14
09:08:34
        15
            that you're in edit mode.
                     And, for example, here it says, buildings not
09:08:36
        16
            found from copy layout or blocked by obstacles have been
09:08:40
        17
09:08:44
        18
            moved to your inventory.
                     So it places as much as it can from the second
09:08:46
        19
09:08:49
        20
            layout, and if there's any discrepancy, if you're missing
09:08:53
        21
            any buildings or there are obstacles, it lets you know, and
09:08:53
        22
            it places them in the bottom of the bar.
09:08:55
        23
            Q. What is your inventory?
09:08:56
        24
            A. The inventory is where you have all the buildings that
09:09:00
       25
            you can use, all the troops that you can generate, the
```

```
09:09:04 1 | walls, the towers, that's your inventory.
```

- 09:09:08 2 Q. And so, as I understand your testimony, if your clan
- 09:09:13 3 | mate, your friend's village has some buildings that you
- 09:09:13 4 don't already have in your inventory, it won't put them
- 09:09:17 5 directly on the layout?
- 09:09:17 6 A. Yes, because you don't have them. But it will show
- 09:09:20 7 them at the bottom, which will allow you, for example, to
- 09:09:23 8 unlock them or buy them or get them. So then you can place
- 09:09:28 9 them.
- 09:09:28 10 Q. All right. So what about the buildings that your clan
- 09:09:31 11 | mate has that you do have in your inventory, what happens
- 09:09:35 12 to those?
- 09:09:35 13 A. Those are placed on the green space.
- 09:09:39 14 Q. Okay.
- 09:09:40 15 MR. MOORE: Let's go ahead and proceed with the
- 09:09:42 16 | video, please.
- 09:09:42 17 Q. (By Mr. Moore) Now, what are we seeing here? Who's
- 09:09:49 18 | layout is now being shown in -- on your profile?
- 09:09:53 19 A. So this is Morlock's layout that's now been copied and
- 09:09:58 20 | is being displayed in my own editor.
- 09:10:01 21 | Q. And it looks like Morlock has some buildings that you
- 09:10:04 22 | don't have?
- 09:10:05 23 A. Yes.
- 09:10:05 24 Q. Okay.
- 09:10:05 25 A. And -- and this is a way for me to see which buildings,

```
and then I can unlock them or buy them.
09:10:08
         1
09:10:11
            Q. But are all the other buildings, you know, the ones
           that aren't shown here below on the blue card, all the
09:10:14
         3
            other buildings that are already on the game space, did
09:10:18
            those come from Morlock's layout?
09:10:20
09:10:22
            A. Yes.
        7
            Q. Now, do you have an understanding of the issue that
09:10:23
            Supercell takes issue with, with respect to this claim
09:10:41
09:10:44
            element?
        9
09:10:44
       10
           A. Yes.
            Q. And what issue do you understand Supercell to disagree
09:10:45
        11
       12
           about?
09:10:49
09:10:50
       13
            A. So each player has a player ID. So, for example,
           Morlock gamer has a player ID that identifies them. When
09:10:56
       14
09:11:01
        15
            the layout is copied, his name isn't copied because I don't
            really care about his name. I know who he is. I'm going
09:11:05
       16
            to his village.
09:11:07
       17
                    But the variable player ID is not copied, but the
09:11:08
       18
            layout of his village is copied. And my understanding is
09:11:14
       19
09:11:19
       20
            Supercell claims that because the player ID is not copied,
            they don't infringe.
09:11:23 21
09:11:24
       22
            Q. Do you agree with that?
09:11:25 23
           Α.
               No.
09:11:26 24
           Q.
               Why not?
```

A. It's -- I mean, as an example, if I have a student and

09:11:27 25

```
my student goes and copies another student's homework and
09:11:32
         1
09:11:36
            then puts his name on it but doesn't copy the name of the
            other student, they're still copying the other homework.
09:11:39
         3
            So you are copying the second player's layout, and you have
09:11:42
            all the information.
09:11:46
         5
09:11:47
                     The player ID is not required to be copied. The
         6
        7
            claim doesn't say you need to copy also the name. You just
09:11:51
09:11:54
            need to copy the template of that -- of a different player,
         8
            which is done.
09:11:58
            Q. Okay. Thank you.
09:11:59
        10
09:12:00
        11
                     Now, did you review any source code that helps
        12
            illustrate or show the infringement of Claim 2, as well?
09:12:02
09:12:05
       13
            A. Yes.
            Q. All right. And, again, due to the confidentiality,
09:12:06
        14
09:12:07
        15
            I'll show that to you a little bit later in the
            examination.
09:12:10
       16
                     All right. So what is your conclusion as to
09:12:10
       17
            Claim 2 of the '594 patent, Dr. Akl?
09:12:12
        18
            A. That Supercell infringes the -- Claim 2 of the '9 -- of
09:12:15
        19
        20
09:12:22
            the '594 patent.
09:12:23
        21
            Q. And does it do so directly?
09:12:26
        22
            Α.
               Yes.
09:12:27
        23
            Q. All right. Do we need to do anything else other than
09:12:30
       24
            look through the source code we'll look to -- through later
           to reach a conclusion of infringement as to this claim?
09:12:33 25
```

- 09:12:35 1 A. No. We can go on to the next two patents.
- 09:12:37 2 Q. Okay. Let's do that.
- 09:12:38 3 What are the next two that we're going to look at?
- 09:12:41 4 A. We're going to look at the '137 and the '481, the
- 09:12:49 5 battle patents.
- 09:12:50 6 Q. And, please, just very quickly remind us what these
- 09:12:53 7 patents are about.
- 09:12:53 8 A. So these are the -- the battle patents where you're --
- 09:12:57 9 you have game content at the bottom that you move and you
- 09:13:00 10 deploy and you attack enemy characters with your player
- 09:13:05 11 characters.
- 09:13:06 12 Q. And what game are -- infringes the battle patents?
- 09:13:10 13 A. So we're going to look at Clash Royale.
- 09:13:12 14 | Q. Okay. And what are your conclusions as to Supercell's
- 09:13:18 15 | direct infringement of the battle patents?
- 09:13:20 16 A. So for the '137 battle patent, I'm going to look at
- 09:13:25 17 | Claims 1, 2, and 15. And for the '481, we're going to look
- 09:13:28 18 at Claims 4 and 5. And -- and my professional opinion
- 09:13:32 19 | through the analysis that I've done is that Supercell
- 09:13:34 20 directly infringes those claims.
- 09:13:40 21 | Q. Okay. You have the patents in front of you, correct?
- 09:13:43 22 A. Yes.
- 09:13:43 23 Q. All right. So please explain to us what type of claims
- 09:13:47 24 | Claims 1, 2, and 15 are of the '137 patent.
- 09:13:50 25 A. Okay. If we can go to the next slide.

```
09:13:53
         1
            Q.
                Sure.
                Thank you.
09:13:54
         2
            Α.
               Yeah.
09:13:55
         3
            Q.
               So for -- I'm going to walk through Claim 1 and Claim
09:13:56
            14 together. Claim 1 is an independent claim, and Claim 14
09:14:01
         5
09:14:08
            is an independent claim.
         7
                     Now, my understanding, based on legal principles,
09:14:11
            is that they are similar. Claim 1 is what we call a
09:14:14
         8
09:14:19
            systems claim, because it says a server connected to a
            terminal, so it's describing a system.
09:14:24
        10
09:14:26
                     Claim 14 is what we call a method claim because it
        11
            starts: A control method for a server connected to a
09:14:30
        12
09:14:34
        13
            terminal. So the language is going to be very similar, and
            the requirements are going to be very similar. One is a
09:14:38
        14
09:14:41
        15
            method claim. One is a system claim.
                     And so in the interest of time, the same evidence
09:14:43
        16
            will meet both, and we're going to be walking through both
09:14:47
        17
09:14:52
        18
            claims in parallel.
            Q. So -- but you said just a minute ago that Supercell
09:14:53
        19
09:14:57
        20
            infringes Claims 1, 2, and 15. Why are we looking at
        21
            Claim 14?
09:15:01
09:15:02
        22
            A. So -- because when we look at Claim 15, Claim 15 will
09:15:05
        23
            depend on Claim 14. So for the same reasons that if you
09:15:09
        24
            have a dependent claim, you have to look at all the
09:15:11
        25
            elements of the independent claim with the dependent claim.
```

```
MR. MOORE: Could we skip ahead, please,
09:15:16
         1
09:15:19
            Mr. Groat, to Slide No. 89?
         2
               (By Mr. Moore) What are we showing here, Dr. Akl?
09:15:21
         3
            Q.
                So this slide shows that Claim 2 is a dependent claim
09:15:23
            that depends on Claim 1. And Claim 15 is a Dependent Claim
09:15:29
         5
09:15:34
            that depends on Claim 14.
                     So to show infringement for Claims 2 and 15, we
         7
09:15:36
            have to walk through Claims 1 and 14. And, again, this is
09:15:41
09:15:47
            why we -- we walk through both in parallel because one is a
            system claim and one is a method claim for the same
09:15:50
        10
09:15:53
        11
            information.
09:15:53
        12
            Q. All right.
09:15:54
        13
                    MR. MOORE: Please go back to Slide 60. Thank
09:15:58
        14
            you.
09:15:58
        15
            Q. (By Mr. Moore) Now, you mentioned a moment ago about
            the difference in the beginning of the claim. Let's just
09:16:01
        16
09:16:04
            start with Claim 1 for this -- for this purpose.
        17
                     How does Supercell directly infringe the
09:16:09
        18
            requirement that there is a server connected to a terminal
09:16:12
        19
09:16:16
        20
            device, et cetera, in this preamble of Claim 1?
09:16:18
        21
            A. Yes. So Supercell owns the servers. We've talked
09:16:24
        22
            about the servers being on the East Coast and the West
09:16:28
        23
            Coast that are going to be connected through Internet
09:16:30
       24
            connection to terminal devices.
09:16:32 25
                     Those are the phones, for example, operated by a
```

```
player through a communication line -- that's the
09:16:36
         1
09:16:38
            Internet -- to provide a game, including a pre-determined
            battle event, that's going to be the game in question --
09:16:45
         3
            comprising at least one battle. So Supercell owns those
09:16:47
            servers that are going to practice the first limitation.
09:16:52
         5
09:16:56
            Q. And what is the difference in terms of the evidence of
        7
            Supercell's direct infringement for 14, which requires a
09:17:00
            control method for a server?
09:17:04
         8
09:17:05
            A. So Claim 14 states -- very similar language. It says:
            A control method for a server connected to a terminal
09:17:13
        10
        11
            device operated by a player, and it continues on.
09:17:16
            Supercell owns the servers for Claim 1, and Supercell
09:17:19
        12
09:17:23
        13
            practices the methods to operate the servers.
                     So Supercell operates the servers and practices
09:17:26
        14
09:17:29
        15
            the method which are the games that then are connected
            through the Internet to the phones that also run the same
09:17:36
        16
            version of the games and do battle.
09:17:39
        17
09:17:43
        18
            Q. Do you have a video that illustrates the connection
09:17:45
       19
            aspect of the game?
       20
09:17:46
            A. Yes.
            Q. All right.
09:17:47
        21
09:17:47
        22
                     MR. MOORE: Let's, please, go to Plaintiff's
09:17:51
        23
            Exhibit 142, and if you could play that video, please?
09:17:56
       24
            Q. (By Mr. Moore) And, Dr. Akl, could you please tell us
09:17:58 25
            what you're showing?
```

```
A. Yes. So when you start the game -- this is after you
09:17:59
         1
            got in the splash screen. It's a lot of information, but
09:18:01
         3
            what we're going to be looking at is battle.
09:18:05
09:18:08
                     So when you want to -- when you're ready to
            battle, you hit the button battle. And so what you see
09:18:10
09:18:17
            here -- and then it says on top: Searching for opponent.
            So -- and then the servers find an opponent, and then it
09:18:21
        7
09:18:23
            starts the game.
         8
            Q. All right.
09:18:25
        9
            A. And -- and then I can start to play the game. So the
09:18:25
        10
            searching for opponent is how I definitely know, including
09:18:29
        11
09:18:34
        12
            the source code and the communication that happens between
09:18:37
        13
            the phone and the server, that it's meeting the claim
09:18:42
        14
            language.
09:18:42
        15
                     MR. MOORE: Could you go back to the beginning of
09:18:43
            that video, please? Thank you.
            Q. (By Mr. Moore) All right. So, again, you are POW or
09:18:48
        17
            P-O-W on the top left?
09:18:51
        18
09:18:53
       19
            A. Yes.
09:18:54
        20
            Q. All right. And you've hit the battle button; is that
09:18:57
        21
            right?
        22
            A. Yes.
09:18:58
09:18:58
        23
            Q. Just curious, what if you hit the party button?
09:19:01
        24
            A. It's a new mode. They're always coming out with
09:19:05 25
            different versions of the game and different ways to enjoy
```

```
09:19:07
         1 | the game and keep you engaged.
            Q. All right. But for this purpose you're seeking to do
09:19:08
            battle with another player?
09:19:11
09:19:12
            A. Yes.
                     MR. MOORE: All right. Could you please advance
09:19:13
         5
            the video a little bit, Mr. Groat? I'll tell you when to
09:19:15
            pause it.
09:19:19
        7
09:19:19
            A. Pause.
         8
                     MR. MOORE: Sorry, could you go back a little bit?
09:19:20
            There you go. Pause right there. Thank you.
09:19:22
        10
            Q. (By Mr. Moore) What are you showing here?
09:19:24
        11
            A. So this is where -- I'm going to be in blue, and red is
09:19:25
        12
09:19:32
        13
            going to be my opponent. So it's giving you a splash
09:19:36
       14
            screen.
09:19:36
       15
                     But more importantly, it's saying on top:
09:19:38
            Searching for opponent. So this is my phone and my game
       16
            connected to Supercell's servers, and the server, trying to
09:19:41
        17
            see who else hit the battle button on their phone, same
09:19:47
       18
            time, and hopefully has a similar skill level and is going
09:19:51
        19
09:19:55
       20
            to try to match me with that opponent.
09:19:58
        21
                    Now, I can cancel if I don't want to play before
09:20:00
        22
            it matches, but once it matches, I can't cancel.
09:20:03
       23
            Q. Is the match -- strike that.
09:20:06
       24
                     For your actions here where you hit battle, is the
           match random?
09:20:11 25
```

```
09:20:12
         1
            A. Oh, yes.
            Q. Okay. And so, Super -- and what determines who your
09:20:13
            opponent is going to be?
09:20:16
            A. So here the -- the server determines. So the server is
09:20:17
            what does the -- the determining of who your opponent is
09:20:21
         5
09:20:23
            going to be.
            Q. All right.
09:20:24
        7
09:20:27
         8
                    MR. MOORE: Let's play it, again, real quickly,
            and I'll tell you when to pause. All right. One second.
09:20:31
            All right. Now, pause. Oh. If you can just go to the end
09:20:34
        10
            of it, I think. There we go. Yeah, before it starts
09:20:38
        11
            playing a little bit more. A little bit further. There we
09:20:45
        12
09:20:52
        13
            go, right there. Thank you.
            Q. (By Mr. Moore) All right. Now, what is this screen
09:20:53
       14
09:20:56
       15
            showing?
            A. So this is showing you -- me, I'm POW. And it's
09:20:56
        16
            showing me the player that the server matched me with,
09:21:00
        17
            NachoCresp.
09:21:07
        18
            Q. Okay. How does the game start? How do you start the
09:21:11
        19
09:21:14
       20
            battle?
09:21:14
        21
            A. So you start the battle -- so it loads up, and then at
09:21:17
        22
            the -- this is a resource management game. It's a
09:21:20
        23
            strategic game where you want to -- you have a resource and
09:21:23
       24
            your resource is called Elixir. That's the number that's
```

going to start growing at the bottom -- grows in points.

09:21:27 25

And if I have enough points, enough Elixir --09:21:31 1 think of it as potion, as like, magic potion. If I have 09:21:34 2 enough magic potion, then I can deploy a card or a spell, 09:21:39 09:21:44 and the card can transform into a player character. And my player character can attack an enemy character. 09:21:50 09:21:52 And what is the goal of the game? A. The goal of the game is to defeat the opposing king. 09:21:54 7 09:22:00 If you kill the king directly, you win. Or if you destroy 09:22:07 all three towers, you also win. So you can immediately attack the king, or usually 09:22:09 10 09:22:12 if you attack one of the towers, you get an advantage, but 11 09:22:17 12 the -- the purpose is to kill the other side or -- or do 09:22:23 13 enough damage to the other side before -- before they do damage to you, so last man standing. 09:22:27 14 09:22:30 15 Q. All right. 09:22:31 16 MR. MOORE: Let's, please, go ahead and play the 09:22:33 17 game. 09:22:33 18 Q. (By Mr. Moore) And illustrate the gameplay, if you 09:22:36 19 would, as we go through. 09:22:37 20 A. So we can pause. 09:22:39 21 Okay. So this is the number at the bottom that I 09:22:42 22 was referring to. This is your resource. And this is 09:22:45 23 going to be a very important parameter. This is called 09:22:51 24 Elixir. The maximum value is 10. And it grows, you know, 09:22:55 25 1, 2, 3, 4, and the cards that you have, this is your game

```
content, they also have points. And I can only play a card
09:22:59
         1
            if I have enough Elixir.
09:23:05
                     So if I do -- so right now I have 8 Elixir, and my
09:23:06
         3
09:23:10
            cards are 4, 7, 4, 5, so I can play, for example, here.
         4
09:23:14
         5
            Sorry, let's look at the left. I can play any of these
09:23:17
            cards.
        7
                     So they're all colored. None of them are grayed
09:23:17
09:23:22
            out. And the way you play them is I -- you know, I move it
            and I -- so I can like grab it, move it, and you let it go
09:23:29
        10
            and it will deploy in your field and then it will attack.
09:23:32
            Q. And is your opponent doing the same thing on their
09:23:40
        11
09:23:43
       12
            phone?
09:23:43
       13
            A. Yes.
            Q. All right.
09:23:44
        14
        15
09:23:44
                    MR. MOORE: Let's show the -- let's show some of
09:23:46
            that, please. Please play the video.
            A. So I move the card. This is the balloon card. It
09:23:50
        17
        18
            turns into a balloon. And now I have my player character
09:23:53
            moving along north and is going to start attacking.
09:23:58
        19
09:24:02
        20
            Q. (By Mr. Moore) All right. I think we'll see a little
            more of that in a moment, but I just want to give that
09:24:04
        21
09:24:07
        22
            introduction.
09:24:07
        23
                     So from what we've seen so far in your analysis,
09:24:10
       24
            what is your conclusion about the preamble portions of
09:24:15 25
            Claims 1 and 14?
```

```
A. That -- that they're met. We have the server that's
09:24:18
         1
            connected to the phone, and my movement -- so not only when
09:24:21
            you're searching for your opponent do you need to be
09:24:25
         3
09:24:27
            connected but throughout the game, because anytime I move,
            that movement is going to be relayed to the server.
09:24:31
         5
09:24:33
            the server is going to be connected to the other player,
            and it's going to relay and reflect what I did the same way
09:24:36
         7
09:24:40
            the server is going to take what the other player did and
         8
            show it on my screen. This is not a peer-to-peer. You
09:24:43
09:24:47
        10
            have to play through the server.
               What do you mean by peer-to-peer, what does that mean?
09:24:49
        11
09:24:53
        12
            A. Peer-to-peer, for example, is, suppose you have two
09:24:56
        13
            people in the same room and you can connect your devices
            directly to each other and you can play a multiplayer game
09:24:59
        14
09:25:04
        15
            with somebody on their device without having a third device
            being like a server.
09:25:07
        16
                     So, for example, you know, Nintendo might have
09:25:10
        17
            that option where, you know, someone can bring their
        18
09:25:13
09:25:16
        19
            switch, and you have your own switch, and the two switches
09:25:18
        20
            can play each other. But you don't need a server.
09:25:21
        21
                     That's peer-to-peer.
        22
09:25:24
            Q. Okay.
09:25:24
        23
            A. None of -- peer-to-peer is not -- none of the games
09:25:28
        24
            here are peer-to-peer. They all have to go through a
09:25:32
        25
            server.
```

Q. Thank you. All right. Let's move on to the next claim 09:25:32 1 element -- I'm sorry, jumped ahead. 09:25:35 What does Element a of Claims 1 and 14 require? 09:25:38 3 A. An information storage device that stores information 09:25:41 4 related to the game and the controller that assesses the 09:25:49 5 09:25:51 information, performs computation on the game, and displays images of the game on the terminal device. 09:25:57 7 09:26:00 Q. How does Clash Royale -- strike that. 8 09:26:04 How does Supercell perform these claim elements using Clash Royale? 09:26:07 10 09:26:08 A. So both the server and the phone have and store 11 information related to the game. You're playing it on your 09:26:15 12 09:26:17 13 phone, and it's relayed to the server. Both the server and the phone have a controller that assesses that information 09:26:24 14 09:26:30 15 and that performs computation of the game. The server is looking and making sure you're --09:26:31 16 you're doing what you're supposed to be doing and relaying 09:26:35 17 what you do to the other player and relaying what the other 09:26:38 18 09:26:42 19 player is doing to you. And that information gets 09:26:48 20 displayed on the game on the terminal device. 09:26:50 21 So the game will display what you do. And through 09:26:53 22 the server, it will display what the other player is doing 09:26:57 23 as you're playing. 09:26:58 24 Q. How does the server display images on the phone?

A. The server is going to take what the other player is

09:27:01

25

```
doing and send those commands to your phone so you know
09:27:04
         1
            what the other player is attacking and how they're
09:27:09
            attacking. And the server is going to take your own
09:27:11
         3
            movement and is going to relay it and reflect it to the
09:27:14
            other player.
09:27:17
         5
            Q. Okay. And, again, do we have a video to help
09:27:18
            illustrate these elements?
09:27:21
        7
09:27:22
           A. Yes.
         8
            Q. Go ahead and describe this, please.
09:27:25
09:27:27
        10
           A. So we started the game. It's loading. I -- I am going
            to start playing fight. I got my cards. I move them. I
09:27:31
        11
09:27:35
        12
            deploy them. And now I have my balloon.
09:27:39
        13
                    So this is me doing the first movement. And you
           can kind of see that the other player also -- so this is my
09:27:43
        14
09:27:50
        15
            own player character, and you can see that the other player
09:27:54
            now is deploying something that's going to start coming
        16
            down.
09:27:58
        17
            Q. All right. I think we cut that video a little too
09:27:59
        18
09:28:03
        19
            soon, perhaps. Let me fast forward to the next video, and
09:28:07
        20
            then we'll come back to the next claim element.
09:28:09
        21
                    MR. MOORE: Please play this continuation of
           Plaintiff's Exhibit 142.
09:28:12
        22
09:28:13
        23
            Q. (By Mr. Moore) What's happening now?
09:28:15
        24
           A. Right. So here you see I'm -- I'm attacking. I'm in
09:28:21 25
           blue attacking the characters, the enemy in red. And, you
```

```
know, they're -- they're fighting. You see all the fire.
09:28:28
         1
            They killed my troops. His enemy starts coming down. My
09:28:30
            tower starts defending, so there's a lot going on. And
09:28:35
         3
09:28:39
            this is what makes it -- it's part of what makes it
            exciting.
09:28:42
         5
09:28:43
                    But you are deploying and -- and at the same time
            I need to strategize. So depending on what they play, I
09:28:46
        7
09:28:52
            need to look at my Elixir at the bottom. So now it says 4.
         8
            And so you see because it says 4, the 5 is grayed out. So
09:28:56
            I can't play the 5. But I can play the 4. I can't play
09:29:01
        10
            the 7. So the 7 card and the 5 card are grayed out. So I
09:29:05
        11
09:29:10
        12
            need to think about which card to play.
09:29:12
        13
            Q. Okay. Let's go back then, if we could, to the claim
            element. I just want to show the rest of that video. What
09:29:17
        14
09:29:20
        15
            is your conclusion about Element a of Claims 1 and 14?
            A. That it is infringed by Supercell.
09:29:23
        16
                    MR. MOORE: Let's go to Element b of Claims 1 and
09:29:30
        17
           14.
09:29:32
        18
               (By Mr. Moore) What does this element require?
09:29:33
        19
            Q.
09:29:34
        20
            A. Element b -- I'm going to read 1b: The information
            storage device holds, as part of the information related to
09:29:41
        21
        22
            the game, plural kinds of player characters and at least
09:29:43
09:29:47
        23
            one kind of enemy character associated with the
09:29:50
        24
           pre-determined battle event.
09:29:54
       25
            Q. And how does Clash Royale -- how does Supercell meet
```

```
these claim elements with Clash Royale?
09:29:59
         1
           A. So I kind of showed you the balloon would be an example
09:30:02
            of a player character that's attacking, and their flying
09:30:06
           minions are an example of the enemy characters coming down.
09:30:10
            Q. All right. Let's watch this again, the same video we
09:30:15
         5
09:30:18
           just saw.
                    MR. MOORE: Could you please play it again?
         7
09:30:19
              (By Mr. Moore) And point out the player characters and
09:30:21
            Q.
09:30:24
            the enemy characters.
09:30:25
        10
           A. So pause. Thank you.
09:30:26
                    This is an example of my player character. That's
        11
09:30:29
        12
           the one in blue. And this -- these are examples here in
09:30:33
        13
            red. The things that are flying down are examples of enemy
            characters. They come down and they start flying down and
09:30:38
       14
09:30:41
       15
           moving.
                    And then I play my Baby Dragon. I have a Baby
09:30:41
        16
            Dragon that I played down. That's another player
09:30:45
       17
           character.
09:30:48
       18
                    MR. MOORE: Right. Go ahead and resume the video,
09:30:49
       19
       20
09:30:53
           please.
09:30:53
        21
            A. So my Baby Dragon is -- is firing, it's in green, it
09:30:57
        22
           turns blue.
09:30:59
       23
                    And pause. Sorry.
09:31:04
       24
            Q. (By Mr. Moore) Go ahead and --
09:31:05 25
           A. Yes. So the red here, the red are the enemy characters
```

```
and the blue are the player characters, and that's what
09:31:09
         1
            meets the claim language.
09:31:12
            Q. Thank you. And what is your conclusion, then, about
09:31:13
         3
            Elements 1b and 14b?
09:31:21
               That they are infringed by Supercell.
09:31:23
         5
            Q. Now, what is the next Element c, 1c and 14c, what does
09:31:27
            that require?
09:31:33
        7
09:31:33
            A. Information on a game content corresponding to each of
         8
            the player characters.
09:31:38
09:31:39
        10
            Q. And did the Court construe any of the claim limitations
           in this element?
09:31:43
       11
09:31:43 12
           A. Yes.
09:31:44
            Q. And what is that construction?
       13
            A. So the Court helped us out by providing a definition
09:31:45
       14
09:31:50
            for game content, and the definition states: Contents or
       15
            items capable of being held and managed by the player
09:31:55
       16
            during the game, such as character cards, avatars, figures,
09:31:59
       17
       18
            names of player characters, nominal designations thereof,
09:32:05
            weapons, clothes, costumes, spells, magic, moves, or
09:32:10
       19
09:32:15
       20
            associated characters.
09:32:16
       21
            Q. Did you apply the Court's construction in your
            analysis?
09:32:18
       22
09:32:19
       23
            A. Yes.
09:32:19 24
            Q. And how does Clash Royale meet this game contents
```

element under the Court construction?

09:32:26 25

```
A. So the -- the cards that I have meet the definition
09:32:27
         1
            of -- of game content. So all these cards, they have
09:32:33
            statistics associated with them. When I deploy them, they
09:32:37
         3
09:32:41
           become characters.
                     So this screen is not while I'm doing battle.
09:32:42
         5
09:32:45
            This screen is when I am looking at my deck. So this is
        7
            called battle deck. And these are all the game content
09:32:49
            that I've unlocked.
09:32:53
         8
                    So this card here is, for example, Level 11. This
09:32:55
            is Level 12. This is my baby dragon, Level 11. I have
09:32:59
        10
            arrows, Level 11. So all of these are examples of game
09:33:03
        11
09:33:09
       12
           content.
09:33:09
       13
            Q. Okay. And if we go back to -- one slide to the Court's
            construction, do you see the reference there to character
09:33:12
        14
09:33:15
       15
           cards?
           A. Yes.
09:33:15
       16
            Q. Is that within what the Court has defined as being an
09:33:15
        17
       18
            example of game contents?
09:33:18
09:33:20
       19
           A. Yes.
09:33:22
        20
            Q. All right. Now, let's -- let's go forward. And would
           you please -- this is from Plaintiff's Exhibit 143?
09:33:27
        21
09:33:29
        22
                    MR. MOORE: Would you please play this video.
09:33:31
        23
           Q. (By Mr. Moore) And -- and explain what it's showing,
09:33:34
       24
           Dr. Akl.
09:33:34 25
           A. So I am looking at my game content. I'm going to
```

select a card. This is the balloon. And I'm going to hit 09:33:39 1 info. And it's going to give me all the info like the 09:33:42 amount of damage it can do. It will give me a little 09:33:47 3 description about it. It's Level 12. And then I can close 09:33:50 it and I can open another card. 09:33:54 5 So each card has attributes in terms of how much 6 damage it can take, how much damage it can do, and what 09:33:59 7

level -- the level for that card.

- Q. And what is your conclusion, then, about Elements 1 and 14c with respect to Supercell's infringement?
- That they are -- that we do have information on a game content corresponding to each of the player characters.
- Q. And what does Element d of Claims 1 and 14 require?
- A. Element d requires a point set for each of the player characters and/or each of the game contents.
- Q. What is that -- well, strike that.

How does Supercell infringe this element with Clash Royale?

A. So we can go to the next slide.

And there are different points associated with the card. Now, the point set for each character, as an example, is this number up here, the No. 5. That's the amount of Elixir or potion, for example, that I need to use that card. So that would be an example of how the claim is infringed by Supercell.

09:33:55

09:34:05

8

09:34:03

09:34:11 10

- 09:34:13 11
- 09:34:17 12
- 09:34:20 13
- 09:34:25 14
- 09:34:30 15

09:34:35

09:34:37 17

16

09:34:39 18

09:34:40 19

09:34:43 20

09:34:47 21

09:34:51 22

09:34:55 23

09:35:01 24

09:35:09 25

```
Q. All right. And so, the -- the points that are set for
09:35:12
         1
           each of the characters or contents, you referred to that as
09:35:14
           the Elixir in Clash Royale; is that right?
09:35:19
09:35:21
           A. Yes.
            Q. All right. Are there any other examples of points for
09:35:21
         5
            any of the player characters besides the Elixir cost?
09:35:23
            A. Yeah, you can have -- like any of these can meet the
09:35:27
        7
09:35:30
            language here. You have damage, you can have the -- the
            amount of hit points, hit speed, and so on. These all also
09:35:34
            can meet the set of points.
09:35:40
        10
            Q. So what is your conclusion as to Claim Element 1d and
09:35:44
        11
           14d?
09:35:48
       12
09:35:48
       13
           A. That Supercell infringes that element, and we've put
           checkmarks.
09:35:53
       14
09:35:54
       15
           Q. And what does Claim Elements 1 and 14e require?
           A. And information on an upper limit of a point set for
09:35:59
       16
           the battle or the pre-determined battle event.
09:36:05
       17
09:36:09
       18
           Q. And did the Court provide a construction for anything
        19
           in this claim element?
09:36:11
09:36:12
       20
           A. Yes.
09:36:14
        21
            Q. And what did the Court -- what is the Court's
09:36:18
       22 | construction --
09:36:20
       23
                    MR. MOORE: Please go back one, Mr. Groat.
```

09:36:23 25 Q. (By Mr. Moore) What is the Court's construction for

09:36:23 24

you.

```
1 | this claim element?
09:36:25
            A. So the Court helped us out and provided a definition
09:36:27
            that says: An upper limit of a value that is set for the
09:36:32
            battle or the pre-determined battle event.
09:36:37
            Q. And in Clash Royale -- well, first of all, did you
09:36:39
         5
09:36:43
            apply that construction in your analysis?
        7
            A. Yes.
09:36:45
            Q. And in Clash Royale, what is it that Supercell does
09:36:45
         8
09:36:48
            that meets Claim Elements 1e and 14e as the Court has
            construed them?
09:36:53
        10
            A. It's going to be the meter at the bottom that's going
09:36:54
        11
            to build. So my Elixir, right here, the No. 4, that's the
09:36:58
        12
09:37:01
        13
            upper limits where I cannot play game content unless I have
            the number of points.
09:37:09
       14
09:37:10
       15
                     So the upper limit in this case is -- is 4.
            It's -- it's going to increase. It has a maximum limit of
09:37:15
        16
            10. But at any point in time, I have a number that is
09:37:17
        17
            provided at the bottom.
09:37:22
        18
            Q. All right. So is -- the upper limit is not 10, right,
09:37:23
       19
09:37:29
       20
            it's the current amount of the Elixir; is that correct?
            A. Correct.
09:37:31
        21
09:37:33
       22
            Q. Okay. And as you say, that will go up or down,
09:37:36
        23
            depending on what the player does?
09:37:37
       24
            A. Yes.
```

Q. All right. And I jumped the gun a little bit and

09:37:37 25

```
1 started this video.
09:37:40
                     MR. MOORE: Could you please go back to the
09:37:41
         2
            beginning and play the video here in Plaintiff's Exhibit
09:37:43
            142?
09:37:45
            Q. (By Mr. Moore) And please show us what this video is
09:37:45
         5
09:37:47
            illustrating, Dr. Akl.
            A. So I play a card. They -- the resource from the card
09:37:49
         7
            gets subtracted from the Elixir, so it goes back down to 1,
09:37:55
         8
09:37:59
            and then it starts building again. Now it's at 1. Now at
            2.
09:38:03
        10
09:38:03
                     So every time it hits a point, it kind of does a
        11
            little splash. And now it's at 4. And I'm waiting. It's
09:38:06
        12
09:38:12
        13
            at 5. I want to play a better card. I'm waiting. So --
            and then I play, it gets subtracted, and it -- and then it
09:38:17
        14
09:38:21
        15
            starts building again.
                     So at any point in time, there is a limit, which
09:38:22
        16
            is the value of that Elixir bar at the bottom.
09:38:25
        17
09:38:30
       18
            Q. Okay. And what is your conclusion, then, for Element e
            of Claims 1 and 14?
09:38:34
        19
09:38:35
        20
            A. That Supercell infringes those elements.
            Q. All right. Now, there's -- there's still more of these
09:38:40
        21
09:38:44
        22
            claims, right?
09:38:45
       23
            A. Yes.
09:38:45
       24
            Q. All right. Let's look at that.
09:38:46 25
                    What are we showing here in terms of Element f for
```

```
Claims 1 and 14?
09:38:51
         1
            A. Element f: The controller displays a plurality of the
09:38:51
            game contents in a first field on the terminal device so
09:39:00
         3
09:39:05
            that the player can select at least one desired game
            content from the plurality of the game contents to attack
09:39:09
         5
09:39:12
            the enemy character in the pre-determined battle event.
         7
            Q. And how does Supercell infringe this claim element
09:39:16
09:39:19
            using Clash Royale?
         8
09:39:21
            A. Right. So we need to have the controller. This is --
            the controller can be in your phone or in the server.
09:39:24
        10
09:39:28
            Displays the plurality of -- of game content.
        11
                     This is what's at the bottom. In the first field.
09:39:31
        12
            So the first field is the bottom in view where I see the
09:39:33
        13
            cards on the phone, and the player can select at least one
09:39:36
        14
09:39:41
        15
            desired game content.
                     So the player has to select a card to attack.
09:39:43
        16
            we need to select to attack the enemy character -- select
09:39:46
        17
09:39:51
        18
            at least one desired game content to attack the enemy
            character.
09:39:54
        19
09:39:54
        20
                     So you need to be able to select to attack, and
            this is what we're going to see in the video.
09:39:58
        21
09:40:00
        22
                     We've already seen it, but this is -- we're
09:40:03
        23
            walking through it again.
09:40:04
        24
            Q. All right.
09:40:05 25
                    MR. MOORE: Let's go to the video. Go ahead and
```

```
play it. I think this is the one that we've seen.
09:40:07
         1
09:40:10
            Q. (By Mr. Moore) But please explain how this video
            illustrates Supercell's infringement of Element f?
09:40:14
         3
09:40:19
            A. So by me grabbing, dragging, and deploying, for
         4
            example, the card, I've selected to attack, because now
09:40:24
         5
09:40:26
            it's -- this is my first field. This is the game content.
            And I've deployed a card, and the -- so I've selected a
09:40:31
        7
09:40:35
            card to attack by putting my finger on it, moving it,
         8
09:40:40
            deploying it, and it's attacking the enemy character.
            Q. All right. And so, what is your conclusion as to Claim
09:40:46
        10
09:40:54
            Element f?
        11
09:40:55
        12
            Α.
                It is infringed by Supercell.
09:40:57
        13
            Q. Let's move on to g.
                     MR. MOORE: Please go -- thank you.
09:40:58
        14
09:41:00
        15
               (By Mr. Moore) What does Claim Element g require?
            Q.
            A. The controller permits the player to select the game
09:41:03
        16
            contents when a sum of the points of the player characters
09:41:06
        17
            and/or the game content selected by the player is less than
        18
09:41:09
09:41:15
        19
            or equal to the upper limit of the point.
09:41:19
        20
            Q. And how does Supercell infringe this claim element with
            Clash Royale?
09:41:26
        21
09:41:27
        22
            A. So the controller, again, is the controller on the
09:41:29
        23
            phone or on the server that prevents you or only allows you
09:41:34
        24
            to select the card if the Elixir value of that card is less
09:41:39
        25
            than or equal to the upper limit of the point.
```

```
So this is the number on the bar. As the number
09:41:42
         1
            grows, I can select more cards, but we've already seen that
09:41:47
            I can only play a card if its value is less than or equal
09:41:50
            to the Elixir at the bottom.
09:41:58
            Q. Okay.
09:42:00
         5
                    MR. MOORE: And let's go to the video illustration
09:42:00
         6
            for this element. This is, again, from Plaintiff's
        7
09:42:02
           Exhibit 142. Please play that, Mr. Groat.
09:42:04
         8
09:42:08
           A. Yes.
           Q. (By Mr. Moore) Please illustrate how this supports
09:42:08
        10
           your opinion.
09:42:10
        11
09:42:11
        12
           A. Okay. Pause. Thank you. Pause. Okay. Thank you.
                    So the controller -- the server and the phone are
09:42:17
        13
          in control of which cards that's allowing me to permit me
09:42:23
        14
09:42:30
        15
            to play, depending on the -- the value has to be less than
            or equal to. So here we see these three are grayed out,
09:42:34
        16
            and so I cannot deploy them. They won't -- I cannot select
09:42:39
        17
            them to attack. They won't attack.
09:42:42
       18
                    But No. 4, I can grab it, I can move it, and I can
09:42:43
       19
09:42:47
        20
            deploy it, and it can attack because the number is less
09:42:50
        21
            than or equal to the 4 -- to this 4.
                    But the other numbers are 5, 5, 5, and 7. And so
09:42:53
        22
09:42:59
       23
           that's greater than 4, and I -- and I'm not permitted to
09:43:04
       24
           select them to attack.
09:43:06 25
           Q. Okay.
```

```
MR. MOORE: Go ahead and resume the video and let
09:43:06
         1
            us know if you'd like to pause it at any other point.
09:43:08
            A. So this is me moving a card, deploying it. I'm
09:43:12
         3
            selecting that card to attack. And now the number is 2, so
09:43:16
            I can't play anything. I have to wait for my Elixir to
09:43:19
         5
09:43:23
            recharge.
            Q. (By Mr. Moore) And why -- just curious, why is that --
09:43:23
         7
09:43:27
            you mentioned earlier, it's a resource allocation game and
            there's some strategy about how you use your deck. Why is
09:43:30
09:43:33
        10
            that important in Clash Royale?
            A. Because you can't just stand or display constantly
09:43:35
        11
09:43:41
        12
            cards. The whole point is you need to think about what
09:43:44
        13
            card they play or what character -- what enemy character is
            flying down and then what enemy character is going to do a
09:43:48
        14
09:43:52
        15
            good job of attacking that. And I have a limited resource.
            That's my Elixir that does recharge. I get 1 point every
09:43:57
        16
            2.8 seconds, but I need to manage which card I play.
09:44:01
        17
09:44:06
        18
                     So it makes the game more engaging by having this
09:44:10
        19
            limit where I can just, you know -- just keep moving game
09:44:15
        20
            content. I have to think about and strategize what card do
09:44:19
        21
            I need to play. Do I wait for the meter to give me some
09:44:22
        22
            more points? I see which cards I have. Or do I use my
09:44:27
        23
            points now?
09:44:28
        24
            Q. Okay. Now, does Supercell -- well, first of all, what
            is your conclusion, then, about Claim Element g?
09:44:32
       25
```

```
That it is infringed by Supercell.
09:44:35
         1
            Α.
            Q. Now, do you have an understanding of whether Supercell
09:44:38
            and its experts dispute your -- your opinion on this point?
09:44:40
         3
09:44:44
            Α.
               Yes.
               And what's your understanding about that?
09:44:45
         5
            Q.
            A. So the -- there is a feature called Future Play. And
09:44:47
            what Future Play means -- what it does is -- see right here
09:44:53
         7
09:45:03
            I have 3 points of Elixir, and so it's very close to coming
         8
09:45:07
            to 4, so because you can have lag --
                     THE COURT: Just a minute.
09:45:11
        10
09:45:13
        11
                     MR. SACKSTEDER: I apologize, Your Honor. I don't
09:45:14
        12
            think it's in his report.
09:45:15
        13
                     THE COURT: So you're raising an objection?
09:45:17
        14
                    MR. SACKSTEDER: I am. I object.
09:45:18
        15
                     THE COURT: Do you have a response, Mr. Moore?
                     MR. MOORE: Yes, Your Honor. I think he's going
09:45:20
        16
            to be rebutting what their arguments are, and I think he
09:45:23
        17
            can address their non-infringement arguments and indicate
09:45:27
        18
            why he dis -- he disagrees with them.
09:45:31
        19
09:45:37
        20
                    MR. SACKSTEDER: There's no supplemental report
            with this in it.
09:45:39
        21
09:45:41
        22
                     THE COURT: All right. Ladies and gentlemen, this
09:45:43
        23
            is apparently an objection that I'm going to have to spend
09:45:47
        24
            some time with counsel on. I see no reason to do it
09:45:50
        25
            without letting you take advantage of an opportunity to
```

```
stretch your legs and get a drink of water.
09:45:54
         1
                    MR. SACKSTEDER: Your Honor --
09:45:56
         2
                    THE COURT: Yes.
09:45:57
         3
                    MR. SACKSTEDER: I'm actually going to withdraw
09:45:58
         4
            the objection. I apologize.
09:46:00
         5
09:46:03
                    THE COURT: Sorry, ladies and gentlemen.
         6
         7
                    Objection is withdrawn. Let's continue with the
09:46:04
            direct examination then.
09:46:06
        8
09:46:07
                    MR. MOORE: All right.
            Q. (By Mr. Moore) Dr. Akl, why -- do you agree with
09:46:07
        10
            Supercell's expert's view on this element?
09:46:11
        11
       12
            A. No.
09:46:13
09:46:13
       13
            Q. Why not?
            A. So what -- what Supercell claims is -- there is a
09:46:15
        14
        15
09:46:20
            feature called Future Play. And with Future Play,
            Supercell's expert, Mr. Friedman, he saw a video, and in
09:46:25
       16
            the video he saw an animation. He did not look at source
09:46:29
       17
       18
            code.
09:46:33
                    What the video shows, it shows a player moving
09:46:33
       19
09:46:38
       20
            the -- for example, the 4 card, moving it here. And
            Supercell says, ah, you are playing the card before your
09:46:42
        21
09:46:48
        22
            Elixir hits 4. But that is, in fact, an incorrect
09:46:54
        23
            conclusion, and I can tell you why.
09:46:58
       24
            Q. Well, first of all, before you do that, did you -- have
            you reviewed any source code that relates to how cards are
09:47:00 25
```

```
played, as well?
09:47:04
         1
            A. Yes.
09:47:05
            Q. Okay.
09:47:06
         3
               I did.
09:47:06
            Α.
         4
09:47:07
         5
            Q. All right. And then -- so then why do you believe
09:47:09
            that's incorrect?
        7
            A. So the -- the claim requires you to select to attack.
09:47:09
            And the player -- it only allows you to grab something and
09:47:13
09:47:19
            move it when you're very close to getting that Elixir.
09:47:21
        10
                     So if the number -- this one is 7 and I only have
            3 points, I cannot move the 7 card, but I can move the 4
09:47:26
        11
09:47:30
        12
            card, and you place the 4 card here. The 4 card is not
09:47:33
        13
            ready to attack. It's still grayed out. And it will only
            become ungrayed out when the number at the bottom is 4.
09:47:38
        14
09:47:42
        15
                     So, in fact, even with Future Play, you are still
            infringing because you are not selecting to attack. You're
09:47:46
        16
            merely positioning your card to get it ready. But it won't
09:47:50
        17
09:47:54
        18
            attack until the number on the card actually meets the
            Elixir.
09:47:59
        19
09:47:59
        20
                     So you can't pre-attack. It's just a way to buy a
            small feature. So if, for example, you're experiencing lag
09:48:04
        21
        22
            or your Internet connection is slow, you don't want to lose
09:48:08
09:48:11
        23
            precious seconds moving a card after your Elixir where you
09:48:16
        24
            can.
09:48:17 25
                     So it allows you to kind of pre-move it, but we
```

```
are still within the language of the claim where you need
09:48:20
         1
            to have the number be equal or less than your Elixir before
09:48:26
            you can select to attack because the card will remain
09:48:29
         3
09:48:32
            grayed out and won't attack until the Elixir actually hits
            4.
09:48:36
         5
            Q. All right. So then what is your conclusion as to --
09:48:36
            whoops -- what is your conclusion as to Claim Element q of
09:48:40
            Claims 1 and 14?
09:48:44
         8
            A. That they do infringe even with Future Play.
09:48:45
            Q. All right. And, again, you've seen source code
09:48:49
        10
            relating to these issues, too?
09:48:52
        11
09:48:53
        12
            A. Yes.
09:48:54
        13
            Q. All right. And, again, we'll -- we'll look at code
09:48:56
        14
            later in the day.
09:48:57
        15
                     Now, let's go on to what I can report is the last
            element of Claim 1 and 14.
09:49:01
        16
                     What does this Element h require, Dr. Akl?
09:49:03
        17
            A. The controller sequentially subtracts the point of the
        18
09:49:07
09:49:14
        19
            selected game content from the upper limit of the point and
09:49:17
        20
            adds a pre-determined amount to the upper limit of the
09:49:21
        21
            point at appropriate timing or restores the upper limit of
09:49:25
        22
            the point.
09:49:26
        23
            Q. Okay. Now, did the Court construe any claim language
09:49:30
       24
            in this claim element?
09:49:30 25
            A. Yes.
```

```
And what did it construe, and how did it do so?
09:49:33
         1
            Q.
                Appropriate timing means at a pre-determined time.
09:49:37
            Α.
               How does Supercell infringe Claim Element 1 and -- 1h
09:49:41
         3
            Q.
            and 14h using Clash Royale?
09:49:48
                So if we go to the next slide.
09:49:50
         5
            Α.
09:49:54
            Q.
                Sure.
        7
            A. So the -- the -- when you play a card, you have to
09:49:55
            subtract. So this number here gets subtracted. So the
09:50:02
         8
09:50:07
            claim requires subtracting the point of the selected game
09:50:11
        10
            content.
        11
                     So when you've deployed a card -- for example, I
09:50:11
            deployed the 7 -- the value 7 gets subtracted from this
09:50:17
        12
09:50:23
        13
            number, and then you -- you then -- it builds again
            gradually, and then you go from -- you know, so I have 10
09:50:26
        14
        15
09:50:29
            points and I play the 7 card. It goes down to 3 right away
            the moment the card attacks. And then it starts building.
09:50:33
        16
            Every 2.8 seconds I get another point.
09:50:36
        17
                     And so the game using the Elixir value and the
09:50:41
        18
09:50:43
        19
            mechanics and looking at the source code infringes this
09:50:47
        20
            element.
09:50:48
        21
            Q. And you understand -- let me go back to the claim, that
09:50:53
        22
            it requires a sequence that sequentially subtracts and
09:50:58
        23
            adds; is that correct?
09:50:58
       24
            A. Yes.
```

Q. And does that happen in Clash Royale?

09:50:58 25

```
A. Yes, the source code confirms that.
09:51:01
         1
            Q. All right. And, again, we'll look at the code a bit
09:51:03
            later?
09:51:06
         3
                    MR. MOORE: But right now why don't we play the
09:51:06
            video, please? This is from Plaintiff's 142.
09:51:08
            A. So I played the 5 card, it subtracts, and now I'm at 2.
09:51:11
         7
                     MR. MOORE: Go ahead.
09:51:16
09:51:17
            A. It's going to build, and so when you play a card, that
            value gets subtracted. So this is why it's a resource
09:51:20
09:51:24
        10
            management, and then it builds again.
            Q. (By Mr. Moore) Okay.
09:51:27
        11
09:51:28
        12
                    MR. MOORE: So can you please play the video
            again?
09:51:31
        13
            A. So, sorry, I played the 4 card. The baby dragon is 4.
09:51:32
        14
09:51:35
        15
            It subtracted 4. I had 5 points, it subtracted 4. The
            Elixir goes down to 1, and then goes back up and starts
09:51:41
        16
            building to 2 points, 3 points and so on.
09:51:44
        17
       18
            Q. Okay.
09:51:47
```

A. And so the moment you play a card, the value gets

Q. All right. Now, I'd like to show you just because this

we're on 142. I think you have a version though that we've

slowed down a little bit. Could you please pull that up

MR. MOORE: Mr. Groat, can you pull up -- well,

subtracted from your Elixir.

moves fairly fast...

09:51:47

09:51:50

09:51:52

09:51:56

09:51:57

09:51:59

09:52:05 25

19

20

21

22

23

24

```
and play that and zoom in on what's happening here.
09:52:09
         1
            Q. (By Mr. Moore) What is this video showing? Well,
09:52:12
            first of all, is this the same video?
09:52:21
         3
09:52:22
            Α.
               No.
09:52:23
         5
            Q. Okay.
09:52:23
               I mean, it's the same game.
            Α.
        7
09:52:25
            Q.
               Okay.
            A. But it's a different point in the video.
09:52:25
         8
               All right. What is it showing?
09:52:28
            Q.
            A. So I'm playing my Night Witch, 4 points. And so it
09:52:29
        10
            shows me once I've moved -- see the minus 4, the minus 4
09:52:36
        11
09:52:39
        12
            gets deducted from my points right away, and then I'm down
            and then it starts building again. And my card becomes the
09:52:43
       13
            witch and the witch starts attacking.
09:52:46
       14
09:52:48
       15
            Q. And then you've got a new card there?
09:52:50
       16
            A. Yes.
               Is that the baby dragon that came in?
09:52:50
        17
               Yes.
09:52:51
        18
           Α.
            Q. All right. Now, again --
09:52:52
        19
09:52:55
        20
                     MR. MOORE: Thank you, Mr. Groat. If you can
        21
09:52:57
            please go back to the slides. Thank you.
09:53:01
        22
                (By Mr. Moore) So what is your conclusion about Claim
09:53:05
        23
            Element h of Claims 1 and 14?
09:53:07
        24
            A. That it is infringed by Supercell.
```

Q. And, again, we have some source code you'll look at

09:53:09 25

```
later on this element; is that right?
09:53:13
         1
            A. Yes.
09:53:15
         2
            Q. Okay. Now -- now that we've looked at the independent
09:53:16
         3
            Claims 1 and 14, what do we have to do next for the '137
09:53:20
            patent?
09:53:24
09:53:24
            A. We have to look at Claims 2 and 15, and we're also
            going to walk through them in parallel.
09:53:27
        7
09:53:29
            Q. And why are you walking through them in parallel?
         8
            A. Because they're very similar. Claim 2 is a system
09:53:31
            claim. And Claim 15 is a method claim for how the system
09:53:35
        10
09:53:39
            should behave and practice the infringement -- or the
        11
            method.
09:53:43
        12
            Q. And how does Supercell require these additional --
09:53:43
        13
            sorry. Let me start again.
09:53:46
        14
09:53:48
        15
                     How does Supercell infringe the additional
            requirements of these Claims 2 and 15?
09:53:52
        16
            A. Okay. So I'm going to read Claim 2. The server
09:53:55
        17
09:53:58
        18
            according to Claim 1 -- so as we said it's a dependent
            claim -- wherein when the player selects the desired game
09:54:02
        19
09:54:07
        20
            content from the game contents displayed in the first
            field, the control unit removes the game content selected
09:54:11
        21
09:54:15
        22
            by the player from the first field and updates the first
09:54:22
        23
            field with a new game content alternative to the removed
09:54:26
       24
            game content.
            Q. How does Supercell infringe this claim element -- or
09:54:26 25
```

```
these claims, I should say?
09:54:30
         1
            A. Let's stay on this slide for just a second because it's
09:54:31
            a lot of words.
09:54:34
         3
09:54:37
            Q. Okay.
            A. So when the player selects the game content, you're
09:54:37
         5
09:54:39
            selecting a card from the bottom. That's your first field.
        7
            The controller removes the game content. You see it's
09:54:42
09:54:44
            removed from the first field. And then it updates the
         8
            first field with a new game content, which means if you get
09:54:46
            another card in its place at the bottom in the first field
09:54:51
        10
            alternative to the removed game content, you've met this
09:54:56
        11
09:55:00
        12
            claim language. And we can see it in the video.
09:55:02
        13
            Q. And before we go to this video, the last video we saw,
            the one where we blew up the sections we saw you play the
09:55:05
        14
09:55:08
            Night Witch and then you got the Baby Dragon, is that an
        15
            example of what you're talking about here?
09:55:12
        16
            A. Yes, that's what we looked at.
09:55:15
        17
09:55:15
        18
            Q. All right. Let's look at the video we have for this as
09:55:16
       19
            well.
09:55:16
        20
                    MR. MOORE: Can you please play that for
            Dr. Akl --
09:55:18
        21
        22
                (By Mr. Moore) And illustrate what it shows?
09:55:19
            Q.
09:55:20
        23
            A. Okay. So I'm waiting for my Elixir to hit a number
09:55:24
        24
            that I can play a card. It hit 4. So I played the 4 card,
09:55:28 25
           this is my Night Witch.
```

```
And now I get another card here. So I get a card
09:55:32
         1
            to replace it, and then it lights up again when the
09:55:33
         2
            number -- when I can play it again, but that's the -- the
09:55:35
            fact that it's replaced a card that I've played with
09:55:38
            another card that's different as an alternative, that meets
09:55:42
         5
09:55:44
            the claim language.
            Q. All right. And one thing I wanted to point out --
09:55:45
         7
09:55:49
                     MR. MOORE: If you could play the video again.
         8
            Get to where after you played the card.
09:55:53
            Q. (By Mr. Moore) You see how the grayed-out cards have
09:55:55
        10
            this little -- almost like a secondhand moving around them?
09:55:58
        11
09:56:01
        12
            A. Yes.
09:56:02
        13
                    MR. MOORE: Let's show that again, please. Thank
09:56:04
        14
            you.
09:56:04
        15
            Q. (By Mr. Moore) What is that?
            A. This is just -- this is showing you -- so right here,
09:56:05
        16
            you see it looks like a little clock that's grayed out more
09:56:10
        17
            than another. This is just telling you that once this
09:56:16
        18
            lightly grayed area fills, it's keeping a timer.
09:56:22
        19
09:56:27
        20
                    So right here you see it's grayed, but it's kind
            of -- it's going to like fill up because right now this
09:56:30
        21
09:56:34
        22
            card is 7, but I only have 5. So once the number 5 hits 7,
09:56:39
        23
            it's going to match the filling up of this gray area.
09:56:42
        24
                     So if you want to play it again, maybe I can
09:56:46 25
            narrate it.
```

```
Q. What does that allow you to do once it's matched up?
09:56:47
         1
            A. Once it's matched up, it's allowing you to select it to
09:56:51
            attack, but I can before.
09:56:54
09:56:55
            Q. Does it allow you to drag it into the field at that
            point?
09:56:58
         5
            A. Yes. So you can drag it, you can deploy it, you can
09:56:58
            move it and drag it and replace it.
09:57:01
        7
                    MR. MOORE: Okay. Thank you. And play the video,
09:57:04
         8
            please.
09:57:07
        9
09:57:07
        10
            A. So, pause. Thank you.
                    So now you see this resets like the -- the --
09:57:08
        11
09:57:15
        12
            because I played a different card and I went now back to 3,
09:57:18
        13
            and so I need four more points, this white area is a lot
            because it's showing me that it's going to be a little bit
09:57:23
        14
09:57:26
            of time before I can play these cards because these are 5,
        15
            5, and 7, but this card is 4.
09:57:30
        16
                    So the white area is a little less on this card
09:57:33
        17
            because this card I will be able to play the 4 card before
09:57:36
       18
09:57:41
        19
            the -- the -- that game content. I can play it before the
09:57:44
        20
            other two. So it's just another visualization of when you
        21
09:57:48
            can play game content and deploy it to attack.
            Q. (By Mr. Moore) Okay. Thank you.
09:57:54
        22
09:57:56
        23
                    Now, does this complete your analysis for the '137
09:58:01
       24
            patent claims?
```

09:58:01 25

A. Yes.

```
And what is your conclusion as to the '137 patent?
09:58:02
         1
            Q.
                It is infringed by Supercell.
09:58:05
            Α.
               And --
09:58:07
         3
            Q.
                The asserted claims are infringed by Supercell.
09:58:10
            Α.
               Which claims are those?
09:58:11
            Q.
               1, 2, and 15.
09:58:13
            Α.
        7
               Thank you.
09:58:17
            Q.
09:58:17
         8
                     All right. Now, let's go to the second-- sorry,
            here we go. You've checked off 2 and 15. And, again, did
09:58:21
09:58:25
            you look at source code for Claims 2 and 15?
            A. Yes.
09:58:28
        11
09:58:28
        12
            Q. Okay. Now, let's go to the next -- the second of the
09:58:32
        13
            two battle patents, which is the -- the '481 patent. Is --
            are the claims in the '481 patent similar or related in any
09:58:42
        14
09:58:47
            way to the claims in the '137 patent?
        15
09:58:52
        16
            A. Yes, they are.
09:58:54
        17
            Q.
               How so?
            A. So there is a lot of language that's going to be
09:58:54
        18
            similar to the claim in the '137. So in the interest of
09:58:58
        19
09:59:00
        20
            time, I'm going to show you that similarity and show you
            the evidence that we already looked at so that we can move
09:59:02
        21
        22
            and concentrate on the elements that we haven't looked at
09:59:07
09:59:09
        23
            yet. But we still need to show that all the elements are
09:59:12
       24
            met.
09:59:12 25
            Q. All right. Now, the begin -- what is the beginning of
```

```
'481 patent, Claim 1?
09:59:17
         1
            A. A terminal device comprising.
09:59:18
            Q. Okay. And actually let me orient ourselves.
09:59:20
         3
                     I think for the '481 patent, your -- let me pull
09:59:25
            it up here.
09:59:31
         5
09:59:35
                     THE COURT: Let me interrupt right now, counsel.
         6
         7
                     MR. MOORE: Yes, Your Honor.
09:59:37
09:59:38
                     THE COURT: I think this is as good a point as any
         8
            for us to take a morning recess.
09:59:41
        9
                     So we're going to pause at this point, ladies and
09:59:43
        10
            gentlemen of the jury. I'm going to ask you simply to
09:59:47
        11
            leave your notebooks closed and in your chairs. We're
09:59:49
        12
09:59:54
            going to take about 10 or 12 minutes for a recess at this
        13
09:59:59
       14
            point.
09:59:59
       15
                     Follow all the instructions I've given you,
            including not to discuss the case among each other or with
10:00:01
       16
10:00:05
       17
            anyone.
                     Take this time to get a drink of water, visit the
10:00:05
       18
10:00:09
       19
            restroom, walk around a bit, and we'll be back in here
        20
10:00:12
            shortly to continue.
10:00:13
        21
                     The jury is excused for recess.
10:00:16
        22
                     COURT SECURITY OFFICER: All rise.
10:00:16 23
                     (Jury out.)
10:00:17 24
                     THE COURT: The Court stands in recess.
10:20:55 25
                     (Recess.)
```

```
(Jury out.)
10:20:58
         1
10:20:59
                     COURT SECURITY OFFICER: All rise.
         2
                     THE COURT: Be seated, please.
10:20:59
         3
10:21:36
         4
                     Are you prepared to continue with your
            examination, Mr. Moore?
10:21:42
         5
10:21:43
                     MR. MOORE:
                                 Yes, Your Honor.
         6
         7
                     THE COURT: You may return to the podium.
10:21:44
10:21:45
         8
                     MR. MOORE:
                                 Thank you.
                     THE COURT: Let's bring in the jury, please,
10:21:50
         9
10:21:54
        10
            Mr. Fitzpatrick.
10:21:58
        11
                     COURT SECURITY OFFICER: Yes, sir.
10:22:02
        12
                     (Jury in.)
                     THE COURT: Please be seated.
10:22:04
       13
                     We'll continue with the Plaintiff's direct
10:22:22
        14
10:22:24
       15
            examination of the witness, Dr. Robert Akl.
10:22:27
       16
                     Mr. Moore, you may proceed.
                     MR. MOORE: Thank you, Your Honor.
10:22:29
       17
       18
            Q. (By Mr. Moore) Welcome back, Dr. Akl.
10:22:29
10:22:34
        19
                     When we broke, we were just starting to talk about
10:22:39
       20
            the '481 patent, the second of the two battle patents.
10:22:42
        21
            So -- and I had asked you to please describe the very
        22
            beginning of the claim, which reads a terminal device
10:22:48
10:22:51
        23
            comprising.
10:22:51
       24
                    What does that relate to?
10:22:53 25
           A. It relates to the cell phone.
```

```
1 Q. And so, does Supercell directly infringe this element
10:22:56
           of the claim?
10:23:00
10:23:01
         3
           Α.
               Yes.
10:23:01
            Ο.
               How?
10:23:02
            A. By having their games run on the phones.
         5
            Q. And how is that enough for Supercell itself to directly
10:23:08
            infringe this part of the claim?
10:23:14
10:23:15
            A. Because it's -- the -- the servers also communicate
         8
            with the phone, and the servers instruct the phones to run
10:23:20
        10
10:23:24
            the games.
            Q. Okay. And when they instruct the phones to run the
10:23:27
        11
10:23:30
       12
            games, what is it on the phones that they are instructing?
10:23:34
        13
            A. The -- the -- the games in question here. So there's
10:23:38
       14
            instructions on the phone that come from the server how the
10:23:41
            game plays, the game mechanics.
        15
            Q. Is Supercell's source code on a player's phone if
10:23:46
       16
10:23:49
       17
            they've got these games on the phone?
10:23:50
       18
            A. Yes.
10:23:50
       19
            Q. Okay. And how do the servers interact with that source
10:23:54
       20
            code that's on the phone from Supercell?
10:23:55
        21
            A. There are messages that go between the source code on
            the phone and the source code on the servers.
10:23:58
        22
10:24:03
       23
            Q. Okay. Let's move forward.
10:24:06 24
                    All right. And so, is that enough -- well, strike
```

10:24:11 25

that.

```
What is your opinion, then, about the very
10:24:11
         1
            beginning of Claim 1 of the '481 patent?
10:24:14
         2
               That it's met by Supercell.
10:24:16
         3
            Α.
            Q. Okay. And I think I neglected to do one thing, which
10:24:18
            is to ask you what type of a claim is the '481 patent,
10:24:21
         5
10:24:24
            Claim 1?
               This is a system claim.
10:24:25
         7
            Α.
            Q. And, I'm sorry, is -- you recall testimony about
10:24:30
         8
            independent and dependent claims?
10:24:34
10:24:36
        10
            A. Yes.
10:24:36
               What type of claim is this?
        11
            Ο.
            A. It's an independent claim.
10:24:37
        12
10:24:41
        13
                     MR. MOORE: Now, could you -- Mr. Groat, could you
            please go earlier in the slides to Slide No. 7? And go
10:24:43
        14
10:24:47
        15
            ahead and click all the way through. Thank you.
            Q. (By Mr. Moore) Now, the claims you're going to be
10:24:54
        16
            providing infringement opinions for the '481, which are
10:24:56
        17
            those?
10:24:59
        18
            A. Claims 4 and 5 of the '481.
10:24:59
        19
10:25:04
        20
            Q. All right. And so why do we need to talk about
       21
            Claim 1?
10:25:06
10:25:07
        22
            A. Because Claim 4 depends on Claim 1, so we have to walk
10:25:12
        23
            through all the elements of Claim 1 before we can -- to
10:25:15
        24
            show infringement, before we get to Claim 4.
            Q. And does 5 -- what about Claim 5, what type of claim is
```

10:25:17 25

```
1 that?
10:25:21
            A. It's also a dependent claim.
10:25:22
            Q. And what does it depend on?
10:25:23
         3
               Either 1 or 4, I have to check.
10:25:25
            Α.
            Q. Okay. Yeah, would you please, if you have your binder
10:25:28
         5
10:25:30
            in front of you, just confirm for us from the '481 patent,
            Claim 5, what does that relate to?
10:25:35
        7
            A. Claim 5 states the terminal device according to
10:25:37
         8
            Claim 1. So both Claims 4 and 5 depend on Claim 1.
10:25:40
            Q. Okay. All right. So let's go back then to the slide
10:25:44
        10
10:25:47
            that we were on, which I think was 94.
        11
                    MR. MOORE: A little bit ahead actually. There we
10:25:53
        12
10:25:56
        13
            go.
            Q. (By Mr. Moore) All right. So then we're -- let's go
10:25:56
        14
10:25:58
        15
            through Claim 1. Do you have a way to abbreviate this
            analysis in view of the similarity between the two battle
10:26:03
        16
            patents?
10:26:07
        17
            A. Yes, but before I do -- but we have to look at claim
10:26:07
        18
            construction.
10:26:10
        19
10:26:10
        20
            Q. Right. Okay. And, yes, thank you.
10:26:13
        21
                     So why are you grouping the elements under
10:26:16
        22
            Element a here together?
10:26:17
        23
            A. So Element a is pretty long, but a lot of what's in (a)
10:26:26
        24
            we've already walked through for Claim 1 in the '137
            patent. So I've prepared a table showing how these
10:26:29 25
```

```
elements are the same and the evidence is the same, to save
10:26:32
         1
            some time.
10:26:37
            Q. All right. And thank you for reminding me about the
10:26:38
         3
            constructions. Are there claims that the Court has
10:26:40
            construed in this grouping you've -- of claim elements
10:26:43
            under 1a?
10:26:48
            A. Yes, there are two.
10:26:49
        7
10:26:50
            Q. Okay. And what constructions are those?
         8
            A. So game content means content on items capable of being
10:26:51
10:26:56
        10
            held and managed by the player during the game, such as
            character cards, avatars, figures, names of player
10:26:59
        11
10:27:04
       12
            characters, nominal designations thereof, weapons, clothes,
10:27:08
       13
            costumes, spells, magic, moves, or associated characters.
            Q. Is that the same construction for game contents that
10:27:12
        14
10:27:15
            you already looked at in the '137 patent?
       15
            A. Yes, it's the same one.
10:27:17
        16
            Q. What is the second term that the -- that the Court
10:27:19
        17
            provided a construction for?
       18
10:27:24
10:27:25
        19
            A. Information on a third parameter value means
10:27:29
       20
            information on an upper limit of a value for the
10:27:31
        21
            pre-determined battle event.
10:27:33
       22
            Q. Did you apply these constructions in your infringement
10:27:35
       23
            analysis?
10:27:37 24
            A. I did.
```

Q. All right. With that, let's move to the chart you

10:27:37 25

```
referenced.
10:27:42
         1
                     What is this slide showing, Dr. Akl?
10:27:43
            A. So the column on the left is the first part of Claim 1
10:27:45
10:27:51
            of the '481, and I've broken down into (i), (ii), (iii),
10:27:56
         5
            (iv), and (v).
10:27:57
                     And then the middle column are elements of the
         6
        7
            '137 patent, Claim 1, that we've already looked at and
10:28:03
10:28:08
            walked through in detail. And then the column on the right
         8
            is the evidence that we also looked at with regard to Clash
10:28:10
10:28:16
        10
            Royale, and what infringes.
10:28:17
            Q. Have we already seen -- has the jury already seen all
        11
10:28:22
        12
            the evidence upon which you rely for the '481 patent,
10:28:29
        13
            Claim 1, the grouping at Element a?
10:28:31
        14
            A. Yes.
10:28:31
        15
            Q. All right. Let's just walk through -- if you would
            briefly explain each of them. What evidence has the jury
10:28:34
        16
            seen that relates to the storage unit element highlighted
10:28:36
        17
            in blue?
10:28:39
        18
10:28:40
        19
            A. So la is a storage unit that stores as part of
10:28:46
        20
            information related to the game -- I was reading this. We
10:28:50
        21
            saw this already in Claim 1b, and it's the server and the
10:28:55
        22
            memory on the server and the memory on the phone.
10:29:01
        23
                     MR. MOORE: Let's go to the next one.
10:29:04
       24
            Q. (By Mr. Moore) Little -- (i) there. What evidence has
10:29:07 25
            the jury already seen that meets this element?
```

```
A. So (i) is information on plural kinds of player
10:29:09
         1
            characters and at least one kind of enemy character
10:29:15
         3
            associated with a pre-determined battle event. We already
10:29:18
            saw this also in Element b of Claim 1 of the '137. And
10:29:22
            these are the troops that are displayed in the game.
10:29:28
         5
10:29:33
                     So when you have character that becomes a player
            character or an enemy character, that meets that claim
10:29:37
        7
10:29:37
            language.
         8
         9
            Q. Okay.
10:29:42
10:29:42
        10
                     MR. MOORE: Let's go to the next one.
            Q. (By Mr. Moore) Little -- (ii) information on a game
10:29:44
        11
10:29:48
        12
            content. What evidence have we already seen from the '137
10:29:51
        13
            patent that meets that claim element?
10:29:52
        14
            A. So information on game content corresponding to the
10:29:56
            player characters. We saw this in Claim 1 of the '137,
        15
            Element c, and the -- we looked at, as far as the Clash
10:30:02
        16
            Royale game, the game contents like the guards represent
10:30:06
        17
            the troops and the deck that you have.
10:30:10
        18
10:30:13
        19
            Q. The next one, (iii), what have we seen for this claim
10:30:20
        20
            element from the '137 patent evidence?
            A. So here, the evidence is the same but the claim
10:30:23
        21
10:30:30
        22
            introduces the term "first parameter." So we have
10:30:33
        23
            information on a first parameter value related to the
10:30:37
        24
            battle of each of the player characters and/or each of the
            enemy characters. We looked at -- that's met by, for
10:30:42 25
```

```
example, hit points which we saw in Claim 1, Element d,
10:30:45
         1
            where the points associated with the player characters and
10:30:48
            the game content.
10:30:53
         3
               Did we see that on that balloon card that we looked at?
10:30:54
            Ο.
10:30:57
         5
            Α.
               Yes.
            Q. Okay. Let's go to the next one, number (iv). Why do
10:30:57
            you not have a corresponding language from Claim 1 of the
10:31:01
         7
            '137 for this one?
10:31:05
         8
            A. So (iv) is information on a second parameter value for
10:31:05
        10
            each of the player characters and/or each of the game
10:31:12
            content. We already saw it as the Elixir point cost, but
10:31:15
        11
10:31:19
        12
            it wasn't explicitly stated in Claim 1 where it required a
10:31:25
        13
            second parameter.
                     So the difference here, we're going to see at
10:31:26
        14
10:31:31
        15
            least for what we're going through, there's a first
10:31:32
        16
            parameter, second parameter, and third parameter. And so
10:31:34
        17
            for second parameter, those call-outs weren't explicit, but
        18
            the evidence is the same.
10:31:39
10:31:40
        19
            Q. And when you say Elixir point cost, what are you
10:31:42
        20
            referring to?
10:31:42
        21
            A. This is the -- on the card, that number, that's how
            many Elixir points you need to be able to use that card.
10:31:49
        22
10:31:52
        23
            Q. And, finally, number (v), what -- what does this claim
10:31:58
        24
            element require and what evidence has the jury already seen
            about that claim element?
10:32:02 25
```

```
A. Information on a third parameter value for the
10:32:03
         1
            pre-determined battle event. The third parameter value is
10:32:05
            met by the current points of Elixir at the bottom of the
10:32:08
10:32:13
            field. This is in the game, the Elixir point that you can
            use at one point in time which we already saw in Claim 1 of
10:32:19
            the '137, Element d -- sorry, Element e.
10:32:23
            Q. Right. And as we saw from the Court's construction --
10:32:27
        7
            well, strike that.
10:32:33
                     How does that evidence of the current points of
10:32:33
            Elixir meet the Court's construction for this element?
10:32:36
        10
            A. It is -- so if we -- the Court's construction says
10:32:38
        11
10:32:42
        12
            information on an upper limit of the value for the
10:32:45
        13
            pre-determined battle event. And it's -- it's the upper
            limit that you have at any point in time in the game. So
10:32:51
        14
10:32:53
        15
            it's -- it meets the Court's claim construction, and the
            source code and the game confirm that.
10:32:56
       16
            Q. Does that take care, then, of this grouping as
10:32:58
        17
            Element a?
10:33:03
       18
10:33:03
       19
            A. Yes.
10:33:04
        20
            Q. What is your conclusion about that element?
10:33:06
        21
            A. That it's met. If we go to the next slide, I'm going
        22
            to put a checkmark for all of Element a that Supercell
10:33:10
10:33:14
        23
            infringes Claim 1 of the '481 patent, Element a.
10:33:17
       24
            Q. And what does Element b require?
            A. Element b requires a display processing unit that
10:33:20 25
```

```
displays a plurality of the game contents in a first field
10:33:25
         1
            on a game image in the pre-determined battle event.
10:33:30
            Q. How does Supercell infringe this claim element?
10:33:33
         3
            A. So the -- the display processing unit and the first
10:33:36
            field, we already saw that's the bottom part of the battle
10:33:43
         5
10:33:46
            where you have your cards lined up.
               All right. And what are we showing here?
10:33:48
         7
            A. This is the first field, which we already saw. This --
10:33:50
         8
10:33:57
            this part of the game infringes, having a first field and
10:34:01
        10
            displaying it.
10:34:02
               So what is your conclusion on Element 1b?
        11
            A. That it is met by the game having a multiple game
10:34:06
        12
10:34:12
        13
            contents displayed in a first field. So Supercell
            infringes Claim 1, Element b.
10:34:15
        14
               What does Claim 1, Element c, require?
10:34:18
        15
            A. An input receiving unit that receives a selection of at
10:34:21
        16
            least one desired game content to attack the enemy
10:34:25
        17
            character from the plurality of the game contents.
10:34:29
        18
            Q. How does Supercell infringe Element c with Clash
10:34:33
        19
        20
10:34:36
            Royale?
            A. So you need to receive an input. That's the user
10:34:36
        21
10:34:44
        22
            moving and grabbing and moving the card to -- to deploy it.
10:34:49
        23
            They are meeting the language selection to -- the selection
10:34:53
        24
            of the game content to attack the enemy character. And the
10:34:57
        25
            input is my finger on the touchscreen.
```

O. And what are you showing here on this next slide? 10:34:59 1 A. So I'm showing how by me selecting, grabbing, and 10:35:01 moving and releasing and deploying the card, that's meeting 10:35:08 10:35:11 that claim language. Q. And the phones on which you played the games, do those 10:35:11 5 have touchscreens? 10:35:17 A. Yes. It doesn't have to be a touchscreen. It just has 10:35:19 7 10:35:23 to be any input, but in this case it is. 9 Q. All right. But -- all right. Thank you. 10:35:25 10:35:27 10 And so what is your conclusion about Claim 1, Element c? 10:35:30 11 A. My conclusions, the -- the input is met in here by the 10:35:31 12 10:35:35 13 touchscreen, so the Supercell infringes Element c of Claim 1. 10:35:38 14 10:35:39 Q. Now, let's look to Claim 1, Element d, and this is a 15 little bit longer one. What does this one require? 10:35:43 A. A control unit that removes the game content selected 10:35:46 17 by the player from the first field, updates the first field 18 10:35:48 10:35:52 19 with a new game content alternative to the removed game 10:35:56 20 content, and then sequentially subtracts the second 10:36:03 21 parameter value of the selected game content from the third 10:36:07 22 parameter value, and adds a pre-determined amount to the 10:36:10 23 third parameter value at appropriate timing. 10:36:13 24 Q. Did the Court enter any claim constructions for this 10:36:19 25 element?

```
10:36:19
         1
            A. Yes.
               And what is the claim construction?
10:36:20
            A. At the appropriate timing means at a pre-determined
10:36:21
            time.
10:36:24
            Q. Now, is this particular Element 1d similar to any of
10:36:25
         5
10:36:30
            the language in the '137 patent claims that we looked at?
               Yes, we already saw all of the language.
10:36:34
         7
            Α.
            Q. And where did we see it?
10:36:37
         8
            A. So we need the controller that removes the game
10:36:39
            content, this is when -- you move it when you play it -- it
10:36:42
        10
10:36:45
            updates the first field, so it gives you a new card.
        11
            already saw this for Claim 2 of the '137.
10:36:48
        12
10:36:50
        13
            Q. And are you relying on the same evidence that the jury
            already saw for Claim 2 of the '137 for this portion of
10:36:53
        14
            Claim 1, Element d of the '481?
10:36:57
        15
            A. Yes, I am.
10:37:01
        16
            Q. Now, what is the next part of Claim 1, Element d of the
10:37:01
        17
            '481, and what is it similar to in the '137?
10:37:05
        18
            A. So the next part you need to sequentially subtract the
10:37:07
        19
10:37:13
        20
            second parameter. The second parameter is the Elixir value
            on the card of the selected game content from the third
10:37:17
        21
10:37:20
        22
            parameter. The third parameter is the Elixir value on the
10:37:23
        23
            bottom. That's the one that increases.
10:37:25
       24
                     So you subtract it, and then you add a
10:37:27 25
            pre-determined amount to the third parameter. So the
```

```
Elixir at the bottom gets subtracted when you play a card,
10:37:30
         1
            and then it increases, again, which we already saw in
10:37:34
            Claim 1h of the '137.
10:37:41
         3
            Q. And I think you said that each point is added at a
10:37:45
            certain number of seconds in the game?
10:37:48
            A. Yes, 2.8 seconds you get another point.
10:37:50
            Q. So what is your conclusion, then, about Claim 1,
10:37:53
         7
10:37:57
            Element d of the '481 patent based on the evidence we've
            already seen?
10:38:02
         9
            A. Supercell infringes that element.
10:38:03
        10
10:38:09
            Q. Let's move on then to Claim 1, Element e, what does
        11
10:38:13
        12
            this element require, Dr. Akl?
10:38:16
        13
            A. The display processing unit displays the corresponding
            first parameter value together with at least one of the
10:38:20
        14
10:38:24
            player character and the enemy character on the second
        15
            field of the display of the game.
10:38:26
        16
            Q. How does Supercell infringe this element?
10:38:28
        17
10:38:29
        18
            A. So the -- the first parameter value was, for example,
10:38:34
        19
            the hit points, your health, how much hit points a
10:38:36
        20
            character can take. We need to display that with at least
10:38:39
        21
            one player character.
10:38:40
        22
                     So when you play a character, it needs to be
10:38:43
        23
            displayed in a second field, and that's going to be the
10:38:45
        24
            battle area on top. So if we go to the next slide, I'll --
            I'll map it all.
10:38:48 25
```

```
10:38:49
         1
            Q. Okay. Go ahead.
                So the -- this point here in blue, the little bar, on
10:38:51
            top of your character, that's your hit points. This is
10:38:56
            your health bar, in essence.
10:38:58
                     You also have a red one for the enemy character.
10:39:01
         5
10:39:03
            It's in the second field. This area is the second field.
            The bottom area is the first field.
        7
10:39:07
10:39:10
                     And so the game meets all the elements. We have a
         8
            display that's processing the corresponding first
10:39:16
            parameter. So all the elements of that element are met and
10:39:20
        10
            infringed by Supercell.
10:39:23
        11
                     MR. MOORE: Mr. Groat, is it possible to blow up
10:39:26
        12
10:39:29
        13
            the slide a little bit so we can see the dragon and the
            other character, to zoom in a little bit on that? There we
10:39:31
        14
10:39:35
        15
            go. Can you -- all right. It makes it a little easier to
10:39:38
        16
            see.
            Q. (By Mr. Moore) Where do you see the hit points for the
10:39:38
        17
            dragon and whatever that enemy character is?
10:39:41
        18
10:39:43
        19
            A. So you see here there's the number, and the bar
10:39:46
        20
            representation, and there's the number and the bar
10:39:47
        21
            representation. So the number is there along with the bar
10:39:50
        22
            when you zoom in.
10:39:51
        23
                     And here you see another one like 12, 12, here you
```

see 11, 11 and so on. You see 12 here. Those are the

first parameter -- or examples of the first parameter.

10:39:55

10:39:59 25

```
Q. Okay. Thank you, Dr. Akl.
10:40:02
         1
10:40:03
                    And so, what is your conclusion with respect to
         2
            Claim 1 of the '481 patent Element e?
10:40:11
         3
10:40:15
            A. It is infringed by Supercell, and we can put a
            checkmark.
10:40:19
         5
10:40:20
            Q. Now, let's look at Claim 1, Element f, what does this
            require?
10:40:24
        7
            A. So Element f is: Wherein the control unit enables
10:40:24
         8
10:40:30
            selection of the new game content when the second parameter
10:40:33
        10
            value of the new game content alternative to the removed
10:40:36
            game content is smaller than the third parameter value in
        11
            which the second parameter value of the removed game
10:40:38
        12
            content has been subtracted.
10:40:42
        13
            Q. All right. Now, that -- that's a mouthful, I know.
10:40:44
        14
10:40:47
        15
            But what does that -- how does that map to Clash Royale?
            What does Supercell do that infringes this element?
10:40:50
        16
            A. We actually already saw this. It sounds complicated,
10:40:52
        17
            but all it's saying is the second parameter, that's the
10:40:55
        18
10:40:59
        19
            Elixir on the game content on the card, which needs to be
10:41:01
        20
            subtracted when you play that card from the third
10:41:05
        21
            parameter. The third parameter is the Elixir at the
10:41:07
        22
            bottom. That's your resource.
10:41:08
        23
                     And -- and so when you play it, it's removed.
10:41:12
       24
            It's subtracted. And you get another card. So we've
            already saw those in the mechanics. So this is already
10:41:17 25
```

```
demonstrated when I -- when I play a card, and it's also
10:41:22
         1
            demonstrated in the source code.
10:41:25
         2
            Q. And we've shown a still here from Plaintiff's
10:41:26
         3
10:41:28
            Exhibit 142. Does that help illustrate this, as well?
            A. Yes, so when I -- when I play a card, first you have a
10:41:32
         5
            blank, and then down here it gets subtracted from the
10:41:35
            Elixir. That's the third parameter. And the number on the
10:41:37
         7
10:41:40
            card, on each card, that's the second parameter.
         8
                     So you have 5, 5, and the Elixir, in this case
10:41:43
            the -- the bottom is 5. When you select to attack a card,
10:41:46
        10
            when move it and deploy it, the value on the card, the
10:41:52
        11
            Elixir gets subtracted from the bottom, and you get blank
10:41:56
        12
10:41:59
        13
            for a second, and then you get another card filled in.
            Q. So what can we conclude then from your analysis about
10:42:07
        14
10:42:11
        15
            Claim 1 of the '481 patent?
            A. That it is infringed by Supercell.
10:42:12
        16
            Q. Okay. Now, let's then go -- that's the independent
10:42:15
        17
        18
            claim, correct?
10:42:19
10:42:20
        19
            A. Yes.
10:42:20
        20
            Q. Let's go to the two dependent claims. And first let's
            start with Claim 4. Let me show that for us. Here we go.
10:42:24
        21
10:42:31
        22
            What does Claim 4 of the '481 patent require?
10:42:34
        23
            A. The terminal device according to Claim 1 -- we've
10:42:38
        24
            already walked through all the elements of Claim 1 --
            wherein the control unit displays the game content selected
10:42:41
        25
```

by the player in a second field different from the first 10:42:44 1 10:42:48 field in a state different from the state of being displayed in the first field. 10:42:52 O. You talked a little bit earlier about the first field 10:42:54 and the second field. Please remind us what that is? 10:42:58 10:43:03 A. So the first field is at the bottom where you have your cards or your deck. You have the game content in that 10:43:05 7 rectangle form. The second field is the battleground, 10:43:08 8 10:43:13 which is the top area, and -- and the claim -- and I'll wait until the next question. 10:43:17 10 Q. That's fine. That's where I was going. 10:43:18 11 It also says that the game content must be 10:43:20 12 displayed in the second field in a state different from the 10:43:24 13 state of being displayed in the first field. What is that 10:43:29 14 referring to with the word "state" there? 10:43:33 15 A. Yes. So if we go to the next screen, please. 10:43:35 16 10:43:39 When I play a card, we already saw that it 17 becomes -- and we have a video. 10:43:45 18 Q. Go ahead. 10:43:46 19 10:43:48 20 A. So this is the first field, this is the second field, 21 and the claim requires you as you move something from the 10:43:52 10:43:55 22 first field to the second field, that it has a different 10:43:58 23 state. And we've shown that in the animation. A card 10:43:58 24 becomes a player character, like we have a balloon card 10:44:03 25

```
that actually becomes a balloon that's flying and that's
10:44:07
         1
            shooting. We have a Baby Dragon card that becomes an
10:44:10
            actual little Baby Dragon flapping its wings.
10:44:14
         3
                    So that meets the language of a second -- a state
10:44:19
            different than the first state. And for -- for that claim
10:44:22
         5
            language.
10:44:27
            Q. Is state a common term -- term that's used in the
10:44:27
        7
10:44:32
            computer science field?
        8
10:44:33
            A. Yes.
        9
            Q. And how is it commonly used in that field?
10:44:33
        10
            A. A state is just a condition. So like whatever state
10:44:35
        11
10:44:37
        12
            that you want -- to be in a different state just means to
           be in a different condition or different shape or different
10:44:41
        13
           mechanics.
10:44:44
       14
10:44:45
       15
           Q. All right.
                    MR. MOORE: Let's go ahead and play the video.
10:44:45
       16
               (By Mr. Moore) And illustrate for us why you believe
10:44:47
       17
            Q.
           this claim element will be met?
        18
10:44:49
            A. So this is the witch card that I moved, the Night
10:44:52
        19
10:45:04
       20
            Witch. And so it changes from a card to an actual witch
            that's moving up. So that's the different state. And --
10:45:04
       21
10:45:08
       22
            and, again, this is the second field, and this is the first
10:45:10 23
            field.
10:45:10 24
                    So the claim language is met by the game
10:45:14 25
           mechanics.
```

```
Q. All right. So what's your conclusion, then, about
10:45:15
         1
            Claim 4 of the '481 patent?
10:45:17
            A. That it is infringed by Supercell.
10:45:18
         3
            Q. Let's go to Claim 5 then. What does Claim 5 require?
10:45:26
            A. The terminal device according to Claim 1: Wherein the
10:45:31
         5
10:45:34
            control unit enables a -- enables selection of the new game
         7
            content before a predetermined time is elapsed and when the
10:45:38
10:45:44
            second parameter value of the new game content alternative
         8
            to the removed game content is smaller than the third
10:45:46
10:45:50
        10
            parameter value from which the second parameter value of
            the removed game content has been subtracted.
10:45:53
        11
10:45:56
        12
            Q. Could you break that down for us, please?
10:45:59
        13
            A. Sure. So if we look at the first part, you need to
            have new game content before a predetermined time has
10:46:04
        14
10:46:07
        15
            elapsed.
                     So the predetermined time is -- is the game.
10:46:08
        16
            need -- you have a timer. Like some games are two and a
10:46:10
        17
            half minutes or three minutes. But that is a predetermined
10:46:14
        18
10:46:17
        19
            time because it's programmed in advance. So -- so it
10:46:22
        20
            meets -- the programmer decides the length of the game.
10:46:24
        21
                     The second part of the language says, when the
10:46:28
        22
            second parameter -- that's the Elixir -- on the game
10:46:31
        23
            content value of the new game content alternative to the
10:46:36
        24
            removed game content -- so you've played a card, you got
```

another card, for example, with a new Elixir, and then you

10:46:38

```
have to have it -- it's smaller than the third parameter,
10:46:43
         1
            so you need to play it -- it needs to be smaller than the
10:46:46
            third parameter. The third parameter is that Elixir at the
10:46:49
         3
            bottom, that's your resource, from which the second
10:46:53
10:46:57
         5
            parameter value of the removed game content has been
10:47:01
            subtracted.
        7
                     So when you removed -- when you played your second
10:47:01
10:47:05
            card -- sorry, when you played a card, your second
         8
            parameter, that Elixir was subtracted from the bottom, it
10:47:08
10:47:12
        10
            was replaced by new content. That new content also has an
            Elixir value, and you can play it if the Elixir value is
10:47:17
        11
10:47:24
        12
            less than the upper limit of the bottom and before the game
10:47:28
        13
            ends, which is the predetermined time.
            Q. Okay.
10:47:29
        14
10:47:32
        15
                     MR. MOORE: Let's go back, if we could, to the
            video from Claim 4, and could you play that again, please?
10:47:34
            A. So --
10:47:41
        17
        18
               (By Mr. Moore) Please illustrate. Yes.
10:47:43
            Ο.
10:47:45
        19
            A. So here, I -- I played the card. This is the 4. It
10:47:49
        20
            has a 4, so the 4 is subtracted. I end up with 2. And
10:47:54
        21
            then I get a new content here with -- with another 4. And
        22
            I can play the 4 when the -- the Baby Dragon, I can play it
10:47:57
10:48:03
        23
            as long as this number is less than the number here, which
10:48:06
       24
            is correct.
10:48:06 25
            Q. And what's the predetermined time aspect of this?
```

```
A. The predetermined time is like the length of the game.
10:48:08
         1
            So, here, I have 1 minute left. The -- the beginning of
10:48:12
            the game was already pre-determined by the programmer which
10:48:16
10:48:19
            sets the game at a -- a few minutes.
            Q. Okay. Let's move forward then.
10:48:22
         5
                     So then what is your conclusion, Dr. Akl, for
10:48:28
            Claim 5 of the '481 patent?
10:48:32
        7
            A. That it is infringed by Supercell.
10:48:33
         8
            Q. Now does that complete your analysis of the battle
10:48:38
            patents?
10:48:42
        10
            A. Yes.
10:48:42
        11
10:48:43
        12
            Q. All right. And what's the next patent you'd like to
           talk about?
10:48:46
       13
            A. The next patent I want to talk about is the '655.
10:48:46
        14
10:48:51
            Q. Okay. And, again, remind us the nature of this patent
        15
10:48:57
            and what it relates to in the Clash Royale game, please.
            A. And this is the donation patent. I think we skipped
10:48:59
        17
           one slide.
       18
10:49:04
10:49:05
        19
            Q. That's okay. Let's move on to this.
        20
10:49:07
                     So, again, please, Dr. Akl, remind us what this
        21
10:49:10
            patent relates to and what game you're going to look at
        22
10:49:13
            here.
            A. Yes. So I'm going to now look at the donation -- we're
10:49:14
        23
10:49:19
       24
            still in the same game, and we're going to look at donating
10:49:26 25
            virtual content in this game and how a -- the user that
```

```
receives that content gets an additional benefit.
10:49:30
         1
            Q. Okay. Now, what -- what is shown on the screen on the
10:49:35
            right, which is an excerpt from Plaintiff's Exhibit 153?
10:49:46
10:49:51
            A. So what I'm showing you here is as a player, I'm not
            now in the middle of the game. I'm actually outside of the
10:49:56
10:49:59
            game, but I'm still playing the game in terms of the game
            is running, but I'm not in the middle of a battle. And so
10:50:03
        7
            this is a different view when I'm not in battle.
10:50:07
         8
10:50:10
                     And what I have is I have -- different people can
            ask me for cards, can ask me for game content. So I can
10:50:16
        10
10:50:23
            request game content, and I can get requests from other
        11
10:50:26
        12
            players.
10:50:27
        13
                     So this is me. I am requesting the card. And I'm
            requesting that. And I can have card requests from other
10:50:30
        14
10:50:35
        15
            people. So this is the name -- can we zoom in, please?
10:50:40
        16
            Yes.
        17
                     So this is the name of the player and that player,
10:50:41
            for example, is requesting a card. And -- and what I can
10:50:44
        18
            do is if I have the card -- so it's kind of like Amazon
10:50:49
        19
10:50:55
        20
            wish list where somebody can put in a list of what they
            want, and if I actually have that content, I can donate a
10:50:58
        21
10:51:05
        22
            card from my possession to -- to a player.
10:51:08
        23
            Q. And are these players in your clan?
10:51:10
       24
            Α.
               Yes.
            Q. So Clash Royale also allows clans?
10:51:11 25
```

```
10:51:16
         1
            A. Yes.
            Q. Okay. And what is the purpose of allowing players in
10:51:17
            clans to donate cards to each other in a game?
10:51:20
            A. Well, I can help them level. I can provide them
10:51:22
            material that they need to -- to help them go from a card
10:51:29
         5
            to a new card with better statistics. And so it makes the
10:51:34
            game more fun. If I can help them one time, and then they
10:51:40
         7
10:51:44
            can help me another time, it makes the game better for both
            of us.
10:51:48
            Q. So does each player have their own deck of cards
10:51:49
        10
            that -- that they hold?
10:51:52
        11
10:51:53
        12
            A. Yes.
10:51:53
        13
            Q. And how does a game figure out which of the cards out
            of your deck it's going to show in that first field at the
10:51:58
        14
10:52:02
        15
            bottom?
10:52:02
        16
            A. It randomly decided. So there are algorithms that
            decide -- you design your -- your -- your game content, and
10:52:06
        17
            you unlock stuff. And then the game decides which cards to
        18
10:52:08
10:52:12
        19
            play for you in what order.
```

Q. And is -- what's the strategy involved in -- in having

The -- the -- so you want a deck that's

principle of rock, paper, scissors, where a card can be

well-balanced. The -- most video games run on the

a deck and what cards you might want to put in the deck?

10:52:14

10:52:20

10:52:24

10:52:25

10:52:28

10:52:33 25

20

21

22

23

24

Explain how that works.

stronger than another card but weaker than a different 10:52:37 1 card. 10:52:42 2 And so this principle of rock, paper, scissors 10:52:42 3 where paper covers rock and rock breaks scissors and 10:52:45 4 scissors cuts paper, where any one item is better than 10:52:51 5 10:52:56 another but worse than -- than one. So -- so this is where there isn't an ultimate 7 10:52:58 10:53:04 deck. You don't have a deck that's always going to win, because whatever you pick, there's going to be a card 10:53:07 that's going to be better but a card that's worse. 10:53:10 10 And so the game -- you strategize about how you 11 10:53:12 build a well-balanced deck with different -- so an example 10:53:15 12 10:53:22 13 from the game like the arrows are good against flying objects. And the flying objects are good against units 10:53:26 14 10:53:29 15 that walk. And units that walk are good, for example, against, you know, the horses that attack. 10:53:34 16 So -- so there's this mechanics where there isn't 17 10:53:35 one overpowered card, but there's a dynamic in terms of 10:53:38 18 10:53:45 19 each card has pros and cons. 10:53:47 20 Q. All right. And you mentioned something earlier about cards having levels. Can you explain what you mean by 10:53:49 21 22 that, please? 10:53:52 10:53:52 23 A. Yes. So the level -- so each card has a level, and 10:54:00 24 they have statistics. And usually the -- the higher the level, the better the statistics. 10:54:03 25

```
Q. Okay. What type of statistics are on different level
10:54:05
         1
            cards?
10:54:07
            A. So -- so you can think of a card -- it's kind of like,
10:54:08
         3
            you know, a car and you have a model, you have like a 2015
10:54:13
            Mustang, and then -- and it has a certain horsepower. And
10:54:15
10:54:20
            then you -- you have a -- a different card with a higher
            level with -- with more horsepower.
10:54:23
        7
                     So the statistics are like the health of the card,
10:54:27
         8
            which is the health of the character, how much it can
10:54:29
            attack, how much attack it can take, how long does it stay
10:54:33
        10
            on the battlefield, and so on. So we saw examples of that.
10:54:38
        11
10:54:43
        12
            Q. I take it a higher level card is better than a lower
            level card?
10:54:47
        13
10:54:48
        14
            A. Yes.
10:54:48
        15
            Q. Okay. All right. So what -- let's --
10:54:51
        16
                     MR. MOORE: If you can zoom that out, please,
            Mr. Groat.
10:54:53
        17
                (By Mr. Moore) What is your opinion with regard to the
10:54:56
        18
            Ο.
            infringement by Supercell of the '655 donation patent?
10:54:58
        19
10:55:03
        20
            A. So we're going to look at two claims, Claims 5 and 7.
            And my opinion will be that Supercell infringes those two
10:55:09
        21
10:55:15
        22
            claims, after we walk through the analysis.
10:55:17
        23
            Q. Do -- are those independent or dependent claims?
10:55:21
        24
            A. They are dependent claims -- sorry, Claim 7 is an
            independent claim. Claim 5 depends on Claim 1.
10:55:28 25
```

```
10:55:32
            Q. So what does that mean in terms of your analysis that
         1
            we'll walk through?
10:55:35
            A. Right. So I am going -- so Claim 7, we can walk
10:55:36
         3
            through, but for Claim 5, we need Claim 1. And Claim 1 and
10:55:41
            Claim 7 are very similar. So we're going to walk through
10:55:45
         5
10:55:48
            Claim 1 and Claim 7 in parallel.
            Q. Okay. What pieces of Claims 1 and 7 are we showing
10:55:53
         7
10:55:57
            here on the slide regarding the preamble?
            A. So we're showing that Claim 1 is a system claim. It
10:55:59
            requires a server for providing a service to a plurality of
10:56:03
        10
10:56:09
            devices respectfully [sic] used by a plurality of users,
        11
            and communicating with the plurality of devices, the server
10:56:14
        12
            comprising. So it's a system claim about a server and
10:56:17
        13
            multiple devices that are in communication with each other.
10:56:20
        14
10:56:24
        15
                     Claim 7 is the method claim, and it's similar
            because it says the method of controlling a server for
10:56:28
        16
            providing the service. So one is a system claim, and one
10:56:30
        17
            is a method claim for controlling the server.
10:56:36
        18
10:56:38
        19
            Q. And why do you believe that Supercell itself directly
10:56:43
        20
            infringes this aspect of Claims 1 and 7?
            A. Because Supercell owns and operates the servers.
10:56:46
        21
10:56:50
        22
            have the source code on the servers. They also have their
10:56:54
        23
            source code on the plurality of devices that also play the
10:56:58
        24
            games that are communicating with the servers.
            Q. The phones?
10:57:00
       25
```

```
10:57:01
         1
            A. Yes.
            Q. All right. And how does Supercell itself perform a
10:57:01
            method for controlling a server for providing, et cetera,
10:57:04
            under this element of the claim?
10:57:08
            A. Because Supercell owns the servers and owns the -- the
10:57:10
         5
10:57:15
            source code that controls the -- the games on the server
            and communicates with the phone, it meets this claim
10:57:19
        7
            limitation.
10:57:22
         8
               In addition, does Supercell also operate the servers?
10:57:23
            Q.
10:57:26
        10
            Α.
               Yes.
            Q. All right. Now, let's move forward. Here we go.
10:57:28
        11
                     We showed this previously, I believe, Dr. Akl.
10:57:34
        12
            What is this showing?
10:57:38
        13
            A. Right. So this is the same game, but we're looking at
10:57:39
        14
10:57:43
        15
            a different aspect of the game. We're looking at the
            donation. But at least for the first part to show that
10:57:44
        16
            it's -- the game is in communication with the server and
10:57:47
        17
10:57:50
        18
            the server communicates with the game, we have already
10:57:53
        19
            shown that you have to have an Internet connection when you
10:57:55
        20
            start the game. And you need to -- the server will find a
            player for you. That's how you know that, one, you need to
10:58:02
        21
10:58:05
        22
            be in connection with the server.
10:58:06
        23
                     So this is the video -- or this is a snapshot from
10:58:12
        24
            the video that we saw earlier of -- of searching for an
10:58:15 25
            opponent.
```

```
1 | Q. And this is the same evidence on which you relied for
10:58:16
            the server-related terms in the battle patents?
10:58:22
10:58:24
         3
            A. Yes.
10:58:24
            Q. Thank you.
                     Let's go on to the next -- well, first of all,
10:58:25
         5
            what is your opinion about the preambles of Claims 1 and 7
10:58:26
        7
            then.
10:58:29
10:58:29
            A. That they are infringed by Supercell.
         8
            Q. Let's go on to the next element, which is (a). What
10:58:31
10:58:37
        10
            does this element require?
            A. A storage medium for storing possessed objects
10:58:38
        11
            respectively possessed by the plurality of users, acquired
10:58:45
        12
            in the service and used in the service.
10:58:49
        13
10:58:51
        14
            Q. And has the Court issued any claim constructions for
            this element?
10:58:55
       15
10:58:56
       16
            A. Yes.
            Q. What is the Court's construction?
10:58:56
       17
        18
            A. So for possessed objects, it means items such as hair
10:58:57
            styles, clothes, accessories, goods, and backgrounds.
10:59:02
        19
10:59:07
        20
            Q. Did you apply the Court's construction in your analysis
            of infringement?
10:59:11
        21
10:59:11
        22
            A. Yes.
10:59:11
        23
            Q. How does Clash -- how does Supercell operating Clash
10:59:17
        24
            Royale meet this element as the Court has construed it
```

10:59:18 25

here?

10:59:19	1	A. We we already saw the the game content that you
10:59:23	2	have. You own you have the possessed objects. So we
10:59:26	3	have a slide on the next one, I think, yes.
10:59:28	4	Q. There you go.
10:59:29	5	A. You can you have your objects. They're stored on
10:59:34	6	the phone. And your your your different cards have
10:59:39	7	different characteristics, so that meets the language. And
10:59:41	8	I think there's a video
10:59:42	9	Q. Before we sure. Before we get to the video, what
10:59:46	10	do you see those chests down at the bottom, what is that?
10:59:48	11	A. So right here, you have a chest. Some are closed. It
10:59:53	12	says this will unlock after a certain time. This one says
10:59:56	13	I can open it.
10:59:58	14	So by opening chests, you get items, and those
11:00:02	15	items become part of your inventory or your possession. So
11:00:06	16	this is one way you can end up with items that are in your
11:00:10	17	possession, which meets the claim construction.
11:00:11	18	Q. How do you get access to these chests?
11:00:15	19	A. So they some are on timers. Some are on pay walls.
11:00:22	20	And what we mean is you can use real money to get game
	20	And what we mean is you can use real money to get game
11:00:26	21	currency that helps the clock move faster to unlock chests.
11:00:26 11:00:31		
	21	currency that helps the clock move faster to unlock chests.
11:00:31	21 22	currency that helps the clock move faster to unlock chests.  So and and people would spend a lot of money to

```
had at this particular point in time?
11:00:47
         1
11:00:49
           A. Yes. So in -- in here at the top, you see I have 4,790
           gold coins and 253 gems.
11:00:55
            Q. All right. And what level are you in Clash Royale when
11:00:58
            this --
11:01:02
11:01:03
           A. 11.
        7
               11? Okay. So is that pretty far up?
11:01:03
            Q.
11:01:05
        8
           Α.
               No.
11:01:05
               No. You could still do better? All right.
           Q.
11:01:09
        10
           A. Yes.
11:01:09
           Q. All right.
        11
11:01:09
       12
                    MR. MOORE: Let's show the video, please,
        13 Mr. Groat.
11:01:11
           Q. (By Mr. Moore) What are you showing here in this
11:01:14
       14
11:01:16
       15
           video?
           A. So I'm opening a chest. I click on the chest. It
11:01:16
        16
            opens. It gives me gold. So it gives me the resource. I
11:01:19
        17
            can click it again. It gives me a Barbarian card.
11:01:22
       18
            gives me a Skeleton card. It gives me a Royal Giant, gives
11:01:26
       19
11:01:32
       20
            me a Furnace. This is a rare card. And those are the
11:01:35
       21
            cards. And I get multiple versions. So I get this much
11:01:39
        22
            gold. I get five of this card. I get 11 of the Skeleton
11:01:43
       23
            card. And sometimes you end up with enough cards that you
11:01:47
       24
           can then upgrade.
           Q. What does it mean to upgrade a card?
11:01:48 25
```

A. So when you upgrade a card, you get a new card with 11:01:51 1 better statistics. So you trade in your old card and you 11:01:55 get a better card, kind of like when you trade in your car 11:01:58 3 and you get a new car with better mileage or better engine. 11:02:01 Q. And why are these items that you get out of the chest, 11:02:05 5 11:02:08 in your opinion, possessed objects as the Court has construed that claim element? 7 11:02:10 A. Because it meets the Court's claim construction of 11:02:11 8 items such as -- and we have a list of goods or backgrounds 11:02:16 or accessories or clothes or -- so it meets the Court's 11:02:19 10 claim construction, and it becomes part of your inventory. 11:02:23 11 11:02:26 12 It becomes your possession. 11:02:27 13 Q. All right. And so what is your opinion, then, as to Element a of Claims 1 and 7? 11:02:30 14 11:02:32 15 A. That it is infringed by Supercell. Q. Thank you. Let's move on then to Element b. What does 11:02:33 16 Claim Element b of Claims 1 and 7 require? 11:02:42 17 A. Wherein the storage medium stores, for each of the 11:02:46 18 11:02:49 19 plurality of users, transfer information indicating a 11:02:54 20 transfer or a user who has transferred an object to any of 11:03:00 21 the plurality of the users. 11:03:01 22 Q. How does Supercell infringe this element of the claims? 11:03:06 23 A. So the -- the storage medium is your phone which 11:03:13 24 stores. For each of the plurality of users, transfer information, so we're going to see notifications that the 11:03:17 25

phone will give you that will indicate a transfer or a user 11:03:20 1 who has transferred an object to any of other users. 11:03:23 Q. In addition to storage on the phone, is there storage 11:03:26 3 11:03:29 anywhere else in Supercell's -- or is there storage anywhere else? 11:03:33 5 11:03:33 A. Yes, there's also a storage on the servers, and -- and all the donations or those transfers happen through the 11:03:36 7 11:03:39 servers. 8 11:03:39 So the server will remove that item from your inventory and will add the donation to a different phone, a 11:03:48 10 user's inventory, and it stores that transaction at the 11:03:51 11 11:03:56 12 server. 11:03:56 13 Q. How do you know that? A. Because when you -- if you throw your phone or break 11:03:57 14 11:04:00 15 your phone or get a new phone and you download the game, then all your inventory that you have will download even 11:04:03 16 though it wasn't stored on the phone if you get a new 11:04:07 17 11:04:10 18 phone. So if I reinstall the game fresh because I'm on a 11:04:10 19 11:04:15 20 new phone and I don't have any game data, it will -- once I sign in, it will download all my game data from Supercell's 11:04:20 21 11:04:26 22 servers. 11:04:26 23 Q. Okay. Let's look at the next slide. Do you have a 11:04:29 24 video here that demonstrates the infringement of these 11:04:31 25 claim elements?

```
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11:04:32
         1
            A. Yes.
11:04:34
                     MR. MOORE: Could you please play that?
         2
               (By Mr. Moore) And illustrate why that is so?
11:04:36
         3
            Q.
            A. So I -- I hit the social tab at the bottom. It shows
11:04:39
            me the players. It shows me what I have and what I can
11:04:46
         5
11:04:52
            give and what I'm asking. I hit the donate button, and on
            top, it says donating 40 cards. So as I hit the donate, it
11:04:56
         7
            gave me an opportunity to donate cards that I own to a
11:05:00
         8
11:05:06
            player, in this case Voxel.
            Q. Let me get this straight, what is Voxel doing here that
11:05:12
        10
11:05:17
            set this screen up for you?
        11
            A. So Voxel is another player in my clan, and I am
11:05:19
        12
            selecting -- I am choosing to donate the little purple
11:05:23
        13
            dragon.
11:05:29
        14
11:05:31
        15
            Q. I think that may be a bat actually.
            A. It's a bat, sorry. The purple bat to Voxel. So I can
11:05:33
        16
            pick -- so I can, for example, donate this card to
11:05:39
        17
            Chunnyworth, or I can choose to donate the bats to Voxel.
11:05:44
        18
11:05:50
        19
            So depending on what I own in my possession, I can see, you
11:05:55
        20
            know, what someone wants and I can help them out.
            Q. And why is this that you demonstrated here show that
11:05:59
        21
```

Supercell meets Element b of Claims 1 and 7?

A. Because I am transferring information indicating the

transfer so -- and at the top of the screen we got that

notification that there was a transfer, and you're

11:06:06

11:06:11

11:06:14

11:06:16 25

22

23

So on my phone, I need to be able to see what I own and be able to then select the second user. I need to be able to pick somebody to give them the -- what I'm going to be donating to them. And then there has to be

11:07:42

11:07:47

11:07:53

23

24

communication that receives from the device.

So my phone's connected to the server, and it's going to receive the request for transfer. So when I hit donate, there's going to be a request for transfer that's going to go from my phone and my object from the first user to the second user. So -- and I can walk through it again with the slide.

Q. Yes, I think it's the same video, but let's look at it again now that we have that context.

Please explain how that claim element is met as shown in this video in Plaintiff's Exhibit 145.

A. Okay. So I hit the social tab, and if we can pause here just for a second. The -- this is the display, and the display is showing two things. It's showing my ability to select from the items possessed, so I can choose which card from these cards that I own, like the girl or the bat, and it allows me to select the player.

So we have Voxel and we have Chunnyworth, so I can -- I need to do two things. I need to select the card, I need to select the player. So, in this case, by -- if I hit this donate or I hit that donate, I am selecting the card and selecting the player that I'm going to transfer items possessed by me.

So these are the game objects that are possessed by me, and then that request is going to go to the server,

11:07:57 1 11:08:00 2 11:08:03 11:08:08 11:08:10 11:08:18 11:08:23 7 11:08:23 8 11:08:26 11:08:28 10 11:08:31 11 11:08:34 12 11:08:41 13 11:08:47 14 11:08:50 15 11:08:55 16 11:08:59 17 11:09:02 18 11:09:07 19 20

11:09:10 11:09:13 21 22 11:09:17

11:09:23 24

23

11:09:22

11:09:27 25

```
which is then going to send a notification up here. We'll
11:09:30
         1
            see it in a second, when I donate.
11:09:33
                     So now if we can play the video, please. So I hit
11:09:35
         3
11:09:46
            the donate, and you see this donating 40 cards on top. And
         4
            my cards have now gone to that second player.
11:09:50
11:09:53
            Q. All right. And does that meet the Element c of
            Claims 1 and 7?
11:10:00
        7
            A. It does.
11:10:01
        8
            Q. Okay. Now, were you here yesterday for the opening
11:10:02
            statements?
11:10:10
       10
11:10:10
           A. Yes.
        11
           Q. And is this one of the claim elements that Supercell's
11:10:10
       12
11:10:14
       13
           counsel talked about at the opening statements?
11:10:16
       14
           A. Yes.
11:10:16
       15
            Q. And I think you recall there being a suggestion and
            maybe they put an X by it that this one wasn't present in
11:10:19
            Clash Royale?
11:10:25
       17
11:10:25
       18
           A. Correct.
            Q.
11:10:26
       19
               Do you agree with that?
11:10:27 20
           Α.
               No.
11:10:27
        21
           Q.
               Why not?
11:10:27
        22
               Because the objection that Supercell is making is -- if
11:10:34
        23
           we go back to the slide for a second.
11:10:37 24
           Q. Sure.
            A. The -- the -- and play just to the middle.
```

11:10:37 25

They're saying that I don't -- I'm not the one 11:10:40 1 11:10:46 selecting -- pause. Thank you. 2 They're saying I'm not the one selecting, and, in 11:10:48 3 11:10:51 fact, the second player selects the card. That does not get them out of infringement. 11:10:59 11:11:00 So the fact that the second player has a wish list -- so, for example, Chunnyworth can request different 11:11:03 7 11:11:09 cards and Voxel can request different cards, and I get to 8 know which cards they want. That is an additional feature. 11:11:12 But that's unrelated to the claim. 11:11:15 10 11:11:17 The claim says I need to be able to select from my 11 cards that I possess and give it to somebody. So the fact 11:11:22 12 that I know what they want doesn't get them out of 11:11:24 13

11:11:27

11:11:30

11:11:31

11:11:35

11:11:37

11:11:44

11:11:47

11:11:47

11:11:50

11:11:57

11:12:05

11:12:07 25

14

15

16

17

18

19

20

21

22

23

24

infringement because the claim doesn't say how I get to know what cards.

You know, I can pick something or they can tell me what they want. I'm still doing the selection because I still get to choose and select from my own cards what I give to a player. I get to select the person, and I get to select the card.

So I believe their argument is incorrect.

- Q. Thank you. So, again, your conclusion -- what is your conclusion as to Element c of Claims 1 and 7?
- A. That it is infringed and Supercell meets the language in the claims.

```
Q. Let's move on to Element d. What does Element d
11:12:07
         1
11:12:10
            require?
            A. A processor configured to update the transfer
11:12:10
         3
            information of the second user in response to the request
11:12:13
            for transfer, for determining.
11:12:16
         5
11:12:19
            Q. And how does Supercell meet the Limitation d?
            A. So the -- the second user is going to get a message
11:12:25
        7
            that tells them that they received the card. So they're
11:12:29
            going to -- that transfer information of the second user --
11:12:32
            I'm going to see a notification, and they're going to see a
11:12:36
        10
11:12:39
            notification.
        11
            Q. So in this example that's Voxel, the user you gave the
11:12:39
        12
           bats to?
11:12:43
       13
11:12:44
       14
           A. Yes.
11:12:44
        15
            Q. All right. And how do they see that notification?
            A. In a couple of places. It's going to pop up on the top
11:12:46
        16
            of their screens, and they're going to see cards added to
11:12:51
        17
            their inventory. The same way I saw cards deducted from my
11:12:54
        18
11:12:59
       19
            inventory and I saw a notification on the top of the
11:13:02
       20
            screen.
11:13:02
        21
                    MR. MOORE: All right. And can we play this
11:13:04
       22
            video, please?
11:13:05
       23
            Q. (By Mr. Moore) And please show us how this illustrates
11:13:07
       24
            your testimony.
```

A. So -- so now I am giving a card, and that card is being

11:13:08 25

traded through Voxel. And you see that notification pop in 11:13:18 1 on top, and the cards have now been sent. And on Voxel's 11:13:23 screen, it will show that they received the cards the same 11:13:28 3 11:13:31 way it shows I've sent the cards. MR. MOORE: Actually, can we back up and restart 11:13:35 5 that and make sure you didn't misspeak. 11:13:38 Q. (By Mr. Moore) Are you receiving or requesting cards 11:13:41 7 11:13:43 here? 8 A. So, in this case, I am -- so this is an example where I 11:13:43 request something from Voxel. So for me to show -- to be 11:13:46 10 11:13:50 able to be in the position of Player 2, I am now asking for 11 a card to be received. And when Voxel sends me a card, I'm 11:13:54 12 11:13:57 13 going to get it.

11:13:58

11:14:01

11:14:04

11:14:10

11:14:18

11:14:18

11:14:20

11:14:23

11:14:23

11:14:26

11:14:30

11:14:30 25

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24

So the same way I showed how I sent a card to Voxel, Voxel is going to now send me a card. And what you see on my screen, I am now being User 2 where I am showing how I can receive cards. This is the -- display is the same.

So on this screen, I am requesting something, and I received it, and I get the notification, and I get the cards.

Q. So in the example -- in the first example we looked at where you gave the bats to Voxel, what would Voxel see on their screen?

A. They would have seen a notification and seen that they

```
got the -- the cards. On my screen, I -- I requested
11:14:33
         1
11:14:37
            Skeleton cards, and if we play it again, you'll see how I
            received the cards and the notifications.
11:14:40
         3
11:14:43
            Q. Sure. It happens quickly.
                     MR. MOORE: So let's -- if you can pause it when
11:14:45
         5
            the notification comes across the top.
11:14:47
            A. So I request the card, and I hit -- I'm giving them my
11:14:50
        7
            wish list, and I hit request. And then Voxel was -- sends
11:14:53
            me the cards.
11:14:56
                     MR. MOORE: Pause it, please. Thank you.
11:14:59
        10
11:15:00
               (By Mr. Moore) Where is that shown?
        11
            A. It -- it's very -- here, it says Skeleton received from
11:15:01
        12
11:15:08
        13
            Voxel, you see at the very top. It's kind of hard to see,
            but it's a little notification that pops in, Skeleton
11:15:12
        14
            received from Voxel.
11:15:16
        15
            Q. How does that meet Claim Element d of Claims 1 and 7?
11:15:17
        16
            A. So, in this case, Voxel is the first user and I'm the
11:15:21
        17
            second user and I'm receiving that notification. So for me
11:15:26
        18
11:15:29
        19
            to be able to demonstrate what a second user sees, I need
11:15:31
        20
            to swap the donation, which is what I need to do for this
            claim element here.
11:15:35
        21
11:15:36
        22
            Q. Okay. Now, what is your ultimate conclusion on
11:15:41
        23
            Element d then, Dr. Akl?
11:15:42
        24
            A. That it is met and infringed by Supercell.
            Q. All right. And then let's go on to Element e. What
11:15:45 25
```

does this element require? 11:15:49 1 A. Determine whether the transfer information of the 11:15:51 second user satisfies a condition for granting a second 11:15:55 11:16:01 object when the first object is transferred in response to the request for transfer, for granting. 11:16:04 11:16:07 Q. Did the Court construe or enter a construction for any of the terms in this element? 11:16:11 7 11:16:12 8 A. Yes. Q. And what is that construction? 11:16:13 A. Second object has to be an item that is distinct from 11:16:15 10 the first object. 11:16:19 11 Q. Did you apply that construction in your analysis? 11:16:20 12 11:16:23 13 Α. Yes. Q. And how is this element infringed, as the Court has 11:16:24 14 11:16:27 15 construed it, by Supercell? A. So when -- for example, for the donation, if I get 11:16:28 16 enough cards and I have enough cards that I can level my 11:16:37 17 card, I end up with a new card with better statistics so 11:16:41 18 that new card would be the second object that would be 11:16:47 19 distinct from the first card because it would be a 11:16:52 20 different level, it will be different statistics on it, and 11:16:55 21 11:16:58 22 it would meet the Court's claim construction. 11:17:04 23 Q. Okay. Excuse me. 11:17:05 24 And do you have a video here that helps illustrate

11:17:08 25

that?

```
11:17:08
         1 A. Yes.
11:17:09
                    MR. MOORE: All right. Let's play this portion of
            Plaintiff's Exhibit 143.
11:17:11
         3
                (By Mr. Moore) And please explain how it illustrates
11:17:12
            your opinion.
11:17:15
11:17:17
               So this is a card that's Level --
        7
               12?
11:17:26
            Q.
11:17:27
            A. Level 12, yes. I have 40 out of 200. So once I end up
         8
            with 200 cards, I can level it. But at this point, I can't
11:17:33
11:17:38
        10
            yet.
            Q. What do you mean by level it?
11:17:38
        11
            A. Level it -- you -- you -- I will have an animation
11:17:39
        12
11:17:43
        13
            where basically you have enough cards, you trade it in, and
            you exchange it, and you get a -- a new card.
11:17:47
        14
        15
11:17:49
            Q. Okay. So then how does Supercell in Clash Royale
            determine whether the transfer information satisfies a
11:17:54
       16
            condition for granting this second object based on what
11:17:56
        17
            you've shown here?
11:17:58
       18
            A. Right. So once -- so if we go back and play this at
11:17:59
       19
11:18:05
       20
            the very beginning -- okay, we can pause here. I'm sorry,
            display a little bit more. Thank you. Yes.
11:18:15
        21
                    So when I click info, I get the information on the
11:18:17
        22
```

11:18:20 23 card. But even before I click info, at the bottom of every 11:18:24 24 card, in this screen, you can see what are the requirements to increase the level of the card. 11:18:27 25

So the one -- each number will give you the total number that you need. So, for example, here, you need 800, and I don't -- I haven't hit that yet. For this one I need 2000 and so on.

So the -- if you end up with enough cards that gets you over that threshold, then you can use gold and you unlock and you trade in that card for a new card.

Q. Okay. But let me skip ahead to this one first.

A. So this slide I'm going to -- I'm going to show that I've upgraded a card, and an upgraded card is different than the previous level card.

What are you showing here on this slide?

So once I upgrade a card -- so this one is now upgraded, for example, to Level 9. It's a new card, and it has new statistics. So it -- the game gives me a comparison of my new card versus my previous card that I no longer have.

And this card is better because it's going to have plus 6 for damage and plus 6 for damage per second, and plus 6 for hit points. So it's giving me the statistics of this new card.

- Q. So why is this upgraded card a second object which the Court has construed as an item that is distinct from the first object?
- A. Because it meets that claim construction. So think of

11:18:41 11:18:42 5

11:18:29

11:18:34

11:18:37

1

2

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11:18:48

11:18:53 8

11:18:57

11:18:59 10

11:19:04 11

11:19:08 12

11:19:10 13

11:19:14 14

11:19:18 15

11:19:22 16

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11:19:46 23

11:19:49 24

11:19:49 25

it as, you know, you -- you have a car and you have a 2015 11:19:52 1 model, and you trade it in, and you get a 2020 model. It's 11:19:56 the same car name, but it's a different car because it's 11:20:01 3 11:20:05 now a 2020. And it has, you know, better engine, better gas mileage, and so on. 11:20:09 5 11:20:10 So even though they're both the Skeleton card, it is a new card with a new level and new parameters and 11:20:15 7 statistics. So it meets the Court's claim construction. 11:20:20 8 Q. Okay. Thank you. 11:20:22 And so what is your conclusion as to Element e of 11:20:23 10 11:20:27 11 Claims 1 and 7? 11:20:28 12 A. That Supercell infringes Element e. 11:20:30 13 Q. Let's go on to the next one, please, Element f. What does this element require? 11:20:36 14 A. Grant the second object used in the service of the 11:20:38 15 [sic] second user if the transfer information of the second 11:20:42 16 user satisfies the condition for granting the second 11:20:47 17 11:20:49 18 object. Q. All right. And how does Supercell -- walk us through, 11:20:49 19 11:20:54 20 please, how Supercell infringes this element. A. So this is saying that you grant the second object --11:20:56 21 11:20:58 22 so, for example, you get the new card -- to the second user 11:21:04 23 if the transfer information satisfies the condition. So if 11:21:07 24 I get enough cards or if the transfer was enough cards to get me over the required number, then I end up with a new 11:21:11 25

card. So the donation would meet this requirement. 11:21:15 1 Q. Okay. 11:21:21 MR. MOORE: And let's show this video, please. 11:21:21 3 (By Mr. Moore) Plaintiff's Exhibit 146, how does this 11:21:26 Q. 4 illustrate your testimony? 11:21:27 5 A. Okay. So I'm -- I'm looking at my own cards and I'm 11:21:28 looking at what I have, and now I have enough cards to --11:21:31 7 to level it. So I got enough cards from Voxel for my 11:21:34 8 Skeleton. And now I hit upgrade, and I end up with a new 11:21:37 card that's now has changed from a Level 8 to a Level 9 11:21:42 10 with new parameters. 11:21:46 11 Q. All right. And so it looks like in this video you had 11:21:47 12 11:21:51 13 to decide to upgrade and pay gold to do it; is that right? 11:21:56 14 A. Yes. 11:21:56 15 Q. Does the fact that you have to decide to do the upgrade and decide to pay the gold prevent infringement of this 11:21:59 claim element? 11:22:03 17 You still met the language in the claim. This is 11:22:03 18 A. No. 11:22:07 19 an additional requirement, but the claim just requires you 11:22:10 20 to have met a condition. 11:22:12 21 So the condition that was met is I have enough 11:22:15 22 cards to upgrade. The fact that there is an additional 11:22:18 23 condition in the game, you know, to make money, you have to 11:22:21 24 use gold and you can use real money to get gold, that

doesn't get you out of infringement.

11:22:24

```
Q. And so what is your conclusion then on Element f of
11:22:27
         1
            Claims 1 and 7?
11:22:34
            A. That it -- that Supercell infringes Element f of
11:22:35
         3
            Claims 1 and 7.
11:22:39
            Q. All right. And then Element q -- I think this is our
11:22:40
11:22:45
            last element -- 1 and 7; is that right?
         7
            A. Yes.
11:22:50
            Q. All right. And what does Element g require?
11:22:50
         8
            A. For notifying the device of the second user that the
11:22:52
            first object is transferred or that the second object is
11:23:00
        10
11:23:03
            granted.
        11
            Q. How does Supercell infringe this claim element?
11:23:03
        12
            A. So we -- you saw when I asked for cards and I got a
11:23:05
        13
            card from Voxel -- in this case, I was the second user --
11:23:10
        14
11:23:13
        15
            and I got those objects -- I got the Skeleton cards that I
            wanted, and Voxel selected to send me those cards. Then I
11:23:18
        16
            get a notification.
11:23:24
        17
                     So that notification and the green arrows that
11:23:25
        18
            tell me I can upgrade all meets the claim language of
11:23:28
        19
11:23:31
        20
            notifying the device that the first object is transferred.
            Q. And so what is your opinion as to Element q?
11:23:34
        21
11:23:39
        22
                It is infringed by Supercell.
11:23:41
        23
            Q. Now, did you also look at source code relevant to the
11:23:49
       24
            '655 donation patent?
11:23:49 25
            A. I did.
```

11:23:50 Q. All right. And are these -- what is shown here on this 1 11:23:53 slide? 3 A. So when we have source code printed on paper, every 11:23:53 paper of source code has a number on it. It's a unique 11:23:56 number so we keep track. They're called Bates numbers. 11:24:01 11:24:05 So this is the -- so this means I have a piece of paper that's No. 10 with this whole variable or this whole 7 11:24:08 11:24:14 label. And now I have like pages from Page 84 to Page 101. 8 So it's a counter that court systems use to kind of tag 11:24:21 documents. 11:24:25 10 11:24:25 And with source code, they are tagged with 11 SUPERCELL-SC, which stands for source code. So it's a way 11:24:31 12 11:24:31 13 to keep track of what's printed. And you refer to documents. Unlike books that have their own page numbers, 11:24:35 14 11:24:37 15 we create page numbers for documents. Q. And this is from Plaintiff's Exhibit 591 and 593 --11:24:39 16 11:24:39 17 A. Yes. O. -- is that correct? 11:24:42 18 All right. Now, is this all the source code that 11:24:44 19 11:24:45 20 you looked at for Clash Royale, or just a portion of it? A. No, this is a portion that's relevant for the opinions 11:24:48 21 11:24:50 22 here. 11:24:51 23 Q. All right. Thank you.

Now -- now that we've walked through Claims 1 and

7, let's -- let's take them one at a time, and I'll start

11:24:51

11:24:55 25

```
with No. 7.
11:24:57
         1
11:24:58
                     Do you need to show anything more to show that
         2
            Supercell infringes Claim 7?
11:25:01
         3
                No.
11:25:03
            Α.
               What about Claim 5?
11:25:03
            Q.
11:25:06
                We need to walk through Claim 5 because we haven't yet.
            Α.
         7
               Okay. And is this all of Claim 5 right here?
11:25:10
            Q.
11:25:12
         8
            Α.
               Yes.
11:25:12
               What does it require?
            Q.
            A. The server, according to Claim 1: Wherein the
11:25:13
        10
            condition for granting the second object includes a
11:25:17
        11
        12
            condition relating to the number of or types of objects
11:25:20
            which have been transferred to the second user.
11:25:24
        13
            Q. How does Supercell infringe Claim 5?
11:25:27
        14
                So we've already shown that Supercell infringes all the
11:25:29
        15
            elements of Claim 1. And so for the additional limitation,
11:25:32
        16
            we've already shown actually that the condition is met when
11:25:36
        17
            you have enough cards or a certain number of cards or the
11:25:39
        18
11:25:42
       19
            type of cards.
11:25:43
        20
                     So the condition in Claim 5 is already met. We've
            already shown it in the video, the way we upgrade cards.
11:25:49
        21
11:25:53
        22
            If you have enough and you've received enough, you can
11:25:57
        23
            upgrade it.
11:25:57
       24
            Q. Enough cards?
11:25:59 25
            Α.
               Yes.
```

- Q. All right. And what are you showing here on this next 11:25:59 1
- 11:26:02 slide?
- A. So I'm -- I'm showing the same video, the same screen 11:26:02 3
- that we saw that I was able to upgrade my card because I 11:26:05
- received enough. And then the counter starts again where 11:26:08
- 11:26:12 now I need another 800 cards to go up one more level.
- Q. But you've already had the number of cards it took to 11:26:17 7
- get to this level? 11:26:20 8
- 11:26:21 A. Yes. 9
- Q. All right. Okay. So what is your opinion as to 11:26:22 10
- 11:26:25 Claim 5 of the '655 patent? 11
- A. That Claim 5 is infringed by Supercell. 11:26:26 12
- Q. And does that complete your analysis -- other than the 11:26:30 13
- source code that we'll look at a bit later, does that 11:26:34 14
- 11:26:38 15 complete your analysis as to the '655 donation patent?
- A. Yes. 11:26:41 16
- What's the last patent that we are going to go through? 11:26:41 17
- The '873. 11:26:43 18 Α.
- Q. And, again, what game does the '873 patent -- I'm 11:26:45 19
- 11:26:51 20 sorry.
- 11:26:51 21 What game infringes the '873 patent?
- 11:26:55 22 We're going to be looking at Brawl Stars.
- 11:26:56 23 Q. All right. And what is the summary of your opinions
- 11:27:02 24 for the '873 patent?
- A. So I'm going to show that Supercell infringes Claims 8 11:27:03 25

and 10 of the '873 shooting patent through Brawl Stars. 11:27:08 1 11:27:15 Are those claims independent or dependent or a mix? Q. So Claim 8 is independent, and Claim 10 is independent. 11:27:19 3 Α. Q. They're both independent? 11:27:26 Α. Yes. 11:27:28 5 11:27:29 Q. All right. 6 7 MR. MOORE: Go to the next slide. Thank you. 11:27:29 (By Mr. Moore) And so how have you chosen to organize 11:27:31 Q. 8 11:27:34 your presentation about these claims and their infringement 11:27:36 10 by Supercell? 11:27:37 A. Right. So Claim 8 is a system claim -- what we call a 11 system claim. It's referring to a game system. And the 11:27:42 12 game system here would be the Supercell servers and the 11:27:47 13 phones running the Supercell software, each running the 11:27:50 14 11:27:55 15 games. Claim 10 is a method claim. It's a shooting game 11:27:55 16 control method which is executed and so on when a terminal 17 11:28:01 device does the -- plays the game. 11:28:04 18 And so the evidence is going to be the same for 11:28:09 19 20 11:28:11 both. The analysis is going to be similar. And so we're 21 going to be walking through Claims 8 and Claims 10 also in 11:28:14 11:28:18 22 parallel. 11:28:18 23 Q. And how does Supercell itself infringe these claims?

A. It infringes -- Supercell infringes because they own

and operate the servers. They also direct the -- the

11:28:20

11:28:25

24

servers direct how the games operate on the phones, and so 11:28:32 1 you have -- when we look at the -- the actual language, you 11:28:36 need to have a terminal device -- this is the phone -- a 11:28:42 3 11:28:44 display configured to display game content -- and we're going to see the game running on the phone -- and a touch 11:28:48 5 11:28:52 panel. 7 So the phones have a touchscreen, provided 11:28:52 integral with the display, and the game -- the server 11:28:56 8 apparatus -- that's the Supercell servers that we saw are 11:29:00 on the East Coast and on the West Coast -- configured to be 11:29:04 10 connected to the terminal device. So the servers are 11:29:08 11 11:29:10 12 connected to the phones via a network. They're connected 11:29:14 13 through the Internet, wherein the terminal device includes first circuitry configured to, and then that will take us 11:29:19 14 11:29:22 15 to the second limitation. Q. Does Supercell itself use the game system that it --11:29:24 16 that is recited here? 11:29:28 17 11:29:29 18 A. Yes. Q. And how does it do that? 11:29:30 19 20 11:29:32 A. Because the -- the servers control actually your --11:29:37 21 when you're playing on Brawl Stars, the servers are 22 constantly making sure that whether you can actually shoot 11:29:41 11:29:44 23 or not or whether your player is dead or not, and all that 11:29:47 24 information is determined by the server and sent to the 11:29:50 25 phone.

- 11:29:50 Q. And does Supercell control this system through its 1 operation of the servers and the software in the phones? 11:29:55
- A. Yes. So they own and they operate them and they're in 11:29:57
- the U.S. 11:30:02
- Q. And does Supercell receive any benefits from the 11:30:02
- 11:30:05 operation of this game system that's recited here?
- A. Yes. So they -- they -- they make money from all the 11:30:08 7
- 11:30:12 microtransactions. So the game itself, you download for
- 11:30:16 free. But you need to -- you can use real money to then
- unlock additional players and unlock costumes and unlock 11:30:19 10
- 11:30:24 power-ups and unlock accessories. And so they make a lot 11
- 11:30:28 12 of money from those additional transactions, as we saw in
- 11:30:32 13 the opening.
- Q. Does Supercell itself perform the shooting game control 11:30:32 14
- method that's recited in Claim 10? 11:30:36 15
- A. Yes, because the game -- the shooting controls -- the 11:30:41 16
- user moves their fingers on the touchscreen, but the 11:30:43 17
- 11:30:47 18 controls are -- the input is from the user, but the game is
- 11:30:54 19 Supercell's game.
- 11:30:55 20 Q. And what controls the -- the game itself?
- A. So the -- the controller, but you have the processor 11:30:58 21
- 11:31:01 22 and the server that controls the game, and the user works
- 11:31:04 23 with the interface. And we'll -- we'll walk through how
- 11:31:08 24 the virtual controls appear on the screen.
- Q. Okay. So in view of all of that, what is your 11:31:11 25

```
Case 2:19-cv-00070-JRG-RSP Document 482 Filed 09/18/20 Page 125 of 136 PageID #: 413
            opinion -- whoops, I'm sorry, I skipped over this.
11:31:14
         1
                     We have a video, I think, that -- that illustrates
11:31:17
         2
            some of how the game starts up; is that right?
11:31:22
         3
11:31:24
            A. Yes.
               And this is from Plaintiff's Exhibit 139?
11:31:24
         5
            Q.
            A. Yes.
11:31:27
        7
                     MR. MOORE: Can we play this video, please?
11:31:27
               (By Mr. Moore) And tell us how it illustrates your
11:31:29
            Q.
            testimony.
11:31:31
        9
        10
            A. So when you hit play, the game is going to be searching
11:31:34
            for players. And it says, found six players, because this
11:31:37
        11
            is three against three. So this is showing that you do
11:31:41
        12
11:31:43
        13
            have a game that's connected to the server. The server has
            found the other players. And then you're going to control
11:31:46
       14
11:31:49
       15
            your character. This is the character in green. We'll
11:31:52
       16
            walk through that.
                     But what I'm showing here is that you've -- the
11:31:53
       17
            game is connected to the server, and the server controls
       18
11:31:58
            the game. And the server controls and locates the other
11:32:01
        19
11:32:06
       20
            players, and you're connected through the Internet to play
            the game.
11:32:07
        21
```

11:32:08 22 Q. So you're controlling the player in green -11:32:11 23 A. Yes.

11:32:11 24 Q. -- Voxel with your thumbs?

11:32:15 25 A. Yes. So my left thumb generates -- when I put my thumb

Case 2:19-cv-00070-JRG-RSP Document 482 Filed 09/18/20 Page 126 of 136 PageID #: 414 on the screen, I get this blue button and it becomes like a 11:32:20 1 virtual controller. So if I go up, down, left, right, I 11:32:24 can move my player with my left thumb. 11:32:28 3 With my right thumb, I get the red button on the 11:32:29 right, and I use that when I -- when I press it, I get the 11:32:33 11:32:38 cone. And when I drag it up, down, left, I control the aiming. So the cone will follow the direction of my thumb 11:32:42 11:32:52 to play the game. Q. And the other players you see, who is operating those 11:32:53 11:32:57 10

- other players?
- A. So the other five players, they're each playing on their own phone. That information is sent to the server. And the server then will send that information to my phone so I can see what the other players are doing. So the phone controls the other five players on my phone, and it controls if I can shoot or not.
- Q. You said the phone controls?

Claims 8 and 10 of the '873 patent?

11:32:57

11:33:00

11:33:04

11:33:09

11:33:11

11:33:18

11:33:20

11:33:21

11:33:24

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11:33:33

11:33:37

11:33:41

11:33:43

11:33:47 25

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24

A. Sorry. The server controls the -- the -- so each player sends their information to the server, and then on my phone, the server will communicate with my phone and will control the other five players so I can see what the three enemies are doing. I can see what my two teammates are doing because of information controlled by the server. Q. And so what is your opinion as to the preambles of

- A. That Supercell infringes the 8 and 10 preambles. 11:33:49 1
- Q. All right. Let's look at Element a of the '873 patent. 11:33:56
- What does this element require? 11:33:59
- A. You need to identify a first touch operation on the 11:34:00
- touch panel. 11:34:07
- 11:34:08 Q. And has the Court entered a claim construction for any
- words in this element? 7 11:34:11
- 11:34:11 8 A. Yes.
- 11:34:13 Q. What is that construction?
- A. For touch operation, it means operation that involves 11:34:15 10
- the user's finger or other object, such as a stylus, on the 11:34:22 11
- 11:34:28 12 touch panel.
- Q. Did you apply the Court's claim construction in your 11:34:28 13
- infringement analysis? 11:34:32 14
- 11:34:33 15 A. Yes.
- Q. And why does Supercell infringe Element a of 8 and 10? 11:34:33 16
- A. So the -- once the Court gives us a construction, we 11:34:38 17
- have to use that construction. And the construction just 11:34:44 18
- says for touch operation. It's an operation that involves 11:34:46 19
- 11:34:50 20 the finger. So any operation that involves the finger or a
- stylus on the touchscreen would meet the -- what we mean by 11:34:55 21
- 11:35:00 22 touch operation.
- 11:35:00 23 So it doesn't just have to mean touch because it
- 11:35:04 24 has to meet the meaning of operation. So the first touch
- operation is actually the touch and drag. So there's -- we 11:35:08 25

And so the screen have become able to detect more than one touch, and they can -- they can detect a tap, they can detect a double tap. What makes it a double tap is the interval between the first tap and the second tap versus

11:36:20

11:36:26

11:36:29

23

24

417

just tapping once and tapping again.

11:36:32

11:36:34

11:36:37

11:36:41

11:36:46

11:36:51

11:36:54

11:36:59

11:37:01

11:37:04

11:37:07

11:37:12

11:37:16

11:37:18

11:37:21

11:37:25

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They can detect when you touch and you hold. They can detect when you drag. So anytime you're moving your finger, the capac -- the capacitance is changing, and the controller measures that disruption and the electromagnetic field, and can then translate that to an X and Y coordinate of one or more fingers on the screen.

And there's a lot of source code, both that are provided by the manufacturers of the phone and by the people developing games. So they don't have to build everything from scratch, but the source code for the games will then use what's provided to them in terms of how the phone's hardware works.

And then you will see commands in the source code that say, okay, now I want to do a touch release. Now I'm going to do a touch and drag. Now I'm going to do this operation and look for it. And when you see it implement a certain functionality.

Q. Okay. Thank you.

Let's show this video, which is also Plaintiff's Exhibit 139. And I -- I think you got into this a little bit a moment ago. But I -- I'd like to ask you to identify specifically this time of all the touching you're doing on the screen, what is the first touch operation in Element a?

 ${\tt MR.\ MOORE:}\ {\tt Please\ play\ the\ video.}$ 

```
Q. (By Mr. Moore) And please let us know when you'd like
11:38:00
         1
            to pause it to illustrate that?
11:38:04
            A. So I hit play, the game searches, loads. If I win, I
11:38:05
            get 10 gems -- or I need to find 10 gems to win.
11:38:13
                     Now -- okay. Now, you see if you look at my right
11:38:17
         5
11:38:22
            thumb, my right thumb will -- the cone will follow my right
        7
            thumb. So I will press and drag and as I drag my finger --
11:38:27
                     THE COURT: Just a minute.
11:38:29
         8
11:38:30
                     MR. SACKSTEDER: Objection, Your Honor.
         9
                     THE COURT: What's your objection, counsel?
11:38:30
        10
11:38:32
                     MR. SACKSTEDER: This appears to be outside the
        11
11:38:35
        12
            scope of his expert report, and appears even to be
11:38:40
        13
            contradictory to his expert report.
                     THE COURT: Well, it can't both contradict and be
11:38:44
        14
11:38:47
        15
            outside of. Which is it going to be?
                     MR. SACKSTEDER: Well, I think his -- what he's
11:38:49
        16
            saying right now is -- is not in his expert report.
11:38:52
        17
11:38:55
        18
                     THE COURT: All right. Mr. Moore, do you want to
11:38:58
       19
            respond?
11:38:58
       20
                    MR. MOORE: Yes, I -- I would be happy to,
            Your Honor.
11:39:00
        21
11:39:00
        22
                     I believe -- I've got notes here, and I believe it
11:39:05
        23
            is at least at Paragraph 308 through 311 of his opening
11:39:12
        24
            report. It may well be other places, but that's the first
            note I have.
11:39:15 25
```

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There also was a supplemental report following the
11:39:25
         1
            Court's claim construction order. And I believe -- yes,
11:39:28
            I've got a copy of that.
11:39:35
         3
11:39:36
                     THE COURT: Let me ask you this: How much
            additional direct examination do you have of this witness?
11:39:37
11:39:39
                     MR. MOORE: We have to finish the '873, which will
         6
        7
            take another 10, 15 minutes, I think. And then there's a
11:39:45
            couple of short sections, Your Honor, relating to indirect
11:39:48
         8
            infringement, and a couple of -- of minor things.
11:39:53
11:39:54
        10
                     THE COURT: Just -- just give me your best
            estimate on time.
11:39:57
        11
                     MR. MOORE: Oh, I'm sorry. 30, 35 minutes.
11:39:58
       12
                     THE COURT: Okay. Well, it's 20 minutes until
11:40:01
        13
            12:00. We will recess for lunch at this point, and I will
11:40:03
       14
11:40:06
        15
            take this objection up with counsel over the break, and
            then we'll finish with this witness after we return from
11:40:10
        16
            lunch.
11:40:14
        17
                     Ladies and gentlemen of the jury, if you'll take
        18
11:40:14
            your notebooks with you to the jury room, the clerk's
11:40:16
        19
       20
11:40:20
            office has advised me that your lunch is there waiting on
11:40:23
       21
            you.
11:40:24
        22
                     As I said, it's 20 minutes until 12:00. We will
11:40:32
        23
            do our best to reconvene at 12:30.
11:40:35
       24
                     Follow all the instructions I've given you,
            including, of course, not to discuss the case with each
11:40:37 25
```

THE COURT: 308 of which report? There are

11:41:53 25

```
as well as the touching. And as I understand your
11:44:24
         1
            objection, that would lead me to -- to overrule it.
11:44:31
                    If there's -- if there's additional substance to
11:44:35
         3
11:44:39
            the objection, I'm happy to take it up with you. But at
         4
            this point, it appears to me, as I heard the objection,
11:44:42
11:44:48
            it's covered by that particular section and the surrounding
            sections of his report.
11:44:52
        7
                     So I'm going to -- without more, I'm going to
11:44:54
         8
            overrule the objection. I'll assess the time this has
11:44:56
            taken to the Defendant. And my clerks can give both sides
11:44:58
        10
11:45:05
            an update over the noon hour with regard to your time.
        11
        12
                    Mr. Moore, this witness has been on the stand more
11:45:08
           than three and a half hours.
11:45:10
       13
11:45:11
        14
                    MR. MOORE: Okay.
11:45:11
        15
                    THE COURT: I'm sure you're aware of that.
11:45:13
       16
                    MR. MOORE: Yes, I am, Your Honor. Thank you.
                                 Because you told me an hour and a half
11:45:14
        17
                    THE COURT:
           to two hours before we started, so...
11:45:17
        18
                    MR. MOORE: I did, and, obviously, I was woefully
11:45:19
        19
       20
11:45:22
            under on that.
        21
11:45:23
                    THE COURT: I just want you to be aware of where
11:45:25
       22
           you stand.
11:45:26
        23
                    MR. MOORE: I appreciate it. This is obviously
11:45:27
        24
            extremely important to our case, and so we've chosen to
        25
            invest the time to make sure that we're clear.
11:45:31
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THE COURT: You don't need to justify it. I just
11:45:34
         1
11:45:37
         2
            want you to be aware.
11:45:38
         3
                     MR. MOORE: Thank you. I appreciate it.
                     THE COURT: All right. Counsel, we stand in
11:45:41
         4
            recess until 12:30 for lunch.
11:45:43
         5
11:46:45
         6
                     (Recess.)
         7
         8
                                   CERTIFICATION
         9
        10
                     I HEREBY CERTIFY that the foregoing is a true and
        11
            correct transcript from the stenographic notes of the
        12
            proceedings in the above-entitled matter to the best of my
        13
            ability.
        14
        15
        16
            /S/ Shelly Holmes
                                                      9/11/2020
            SHELLY HOLMES, CSR, TCRR
                                                      Date
        17
            OFFICIAL REPORTER
            State of Texas No.: 7804
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            Expiration Date: 12/31/20
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